Federation Proceedings

VOLUME 11 *December 1952* NUMBER 4

THIRTY-SEVENTH ANNUAL MEETING

CHICAGO, ILLINOIS

April 6-10, 1953

THE 1953 MEETING of the Federated Societies will be held in Chicago, April 6–10. Scientific sessions of the six constituent Societies will begin at 9:00 a.m. on Tuesday, April 7, and will continue through Friday afternoon, April 10. Sessions will be held in the following hotels: the Blackstone, Congress, Conrad Hilton and Palmer House. The Joint Session will be held in the Grand Ballroom at the Conrad Hilton Tuesday evening, April 7, and the motion picture session will take place Monday evening, April 6, in the Gold Room at the Congress. Sunday and Monday, April 5 and 6, will be devoted to meetings of the Federation Board, the Society Councils and other committees and special groups.

HEADQUARTERS HOTELS

Conrad Hilton: Federation headquarters and offices; American Society of Biological Chemists, American Institute of Nutrition.

Palmer House: American Physiological Society.

Congress Hotel: American Society for Pharmacology and Experimental Therapeutics, American Association of Immunologists.

Blackstone Hotel: American Society for Experimental Pathology.

Information on hotels and rates and reservation forms will be distributed to members by the Society Secretaries.

PAPERS FOR THE PROGRAM

Abstracts of papers to be printed in FEDERATION PROCEEDINGS must be submitted *in quadruplicate* to the Secretary of the Society of membership and must reach him *not later than December 22, 1952,* for the Physiology Society, or *December 29, 1952,* for other Societies. The abstract must not exceed 275 words including title, authors' names, institutional connections, references and acknowledgments. Structural chemical formulae, figures and footnotes cannot be used. Tabular data are discouraged, but if used these must permit setting in a single column, and each line of tables and headings must be counted as ten text words.

If reprints of abstracts are desired, the reprint order form which will be distributed by Society Secretaries must be completed in full, and attached to the original copy of each abstract submitted. Additional forms may be secured from the Society Secretaries or from the Federation Office, 2101 Constitution Avenue, Washington 25, D. C.

REGISTRATION INFORMATION

Registration desks will open Monday, April 6, at 9:00 A.M. in the Conrad Hilton Hotel and the Palmer House, and will remain open until 10:00 P.M. on that day. During the following days of the meeting registration desks will open at 8:00 A.M. and will remain open until 5:00 P.M. Members are urged to complete registration on Monday if possible. Members of the constituent Societies, guests, and other biologists and physicians who wish to attend the meetings may register. There will be separate registration desks for non-professional guests who do not wish to attend the scientific sessions. *The official badge issued at the registration desks must be worn to secure admission to the scientific sessions and other activities of the convention.*

Programs and abstracts will be on sale in the lobbies of the Conrad Hilton and the Palmer House near the registration desks. Tickets for various special functions scheduled in the program will be on sale at the Conrad Hilton *only.*

EXHIBITS

Exhibits by industrial firms and by members of the Federation and institutions will be located in the Exhibition Hall at the Conrad Hilton. The Society Secretaries will furnish their members information in regard to member exhibits and applications for space.

Inspection periods will be as follows: Monday, April 6, 12:00 noon to 8:00 P.M.; Tuesday, Wednesday and Thursday, April 7–9, 8:45. A.M. to

5:30 P.M. There will be soft drink and cigarette lounges for the convenience of visitors to the exhibits. An exhibits office will be located adjacent to the main exhibition floor.

PLACEMENT SERVICE

The office of the Placement Service will be located in the Conrad Hilton Hotel, and will open at 8:00 A.M. Monday, April 6. Candidates for positions should write to the Federation Placement Service, 2101 Constitution Avenue, Washington 25, D. C., for application forms, which must be returned not later than March 23, 1953. Candidates who have previously filed forms with the Service are requested to notify the office of their availability and supply additional data not later than March 23. Complete application forms and curriculum vitae will be on file at the Placement Service office in Chicago. The last list of available candidates to be prepared before the annual meeting will be that of February 1953. To be included in this, candidates must file their completed application forms *not later than February 1*.

Employers who are annual subscribers to the Placement Service lists, or those who subscribe to the February 1953 list of candidates, are eligible to use the facilities of the Service at the meeting. An identification card will be issued to each subscriber, and any member of a department or faculty may use the department's or Dean's subscription privilege for scheduling interviews, if properly identified. Subscribers who wish to have their privileges at the meeting utilized by anyone in their organization should send written authorization to the Federation office in Washington not later than March 23. *Only one card can be issued for each subscription.*

Agencies seeking personnel should write to the Federation Placement Service for employers registration cards on which to describe vacancies and record their Chicago addresses. Cards should be returned to the Placement Service not later than March 23.

SPECIAL FUNCTIONS

As heretofore, the Federation Office will be glad to schedule breakfasts, luncheons, dinners and special meetings for any groups who may wish to arrange such functions. Any individuals or groups desiring such meetings scheduled should make their plans early and inform the Federation Office of their requirements *not later than January 23, 1953*. Specifications should include the following information: the attendance to be expected, time desired (with alternatives), and a note of any conflicts with other groups which should be avoided. Lanterns, screens and operators for discussion sessions following a meal can be furnished, if notice of such requirements is given and the expenses are borne by the discussion group.

FEDERATION OF AMERICAN SOCIETIES FOR EXPERIMENTAL BIOLOGY

FEDERATION BOARD, 1952–1953

E. M. LANDIS, E. F. ADOLPH, R. W. GERARD, American Physiological Society
H. A. MATTILL, E. H. STOTZ, VINCENT DE VIGNEAUD, American Society of Biological Chemists
K. K. CHEN, C. C. PFEIFFER, MCKEEN CATTELL, American Society for Pharmacology and Experimental Therapeutics
S. C. MADDEN, R. L. HOLMAN, F. S. ROBSCHEIT-ROBBINS, American Society for Experimental Pathology
P. L. DAY, JAMES M. ORTEN, C. M. MCCAY, American Institute of Nutrition
J. F. ENDERS, JOHN Y. SUGG, COLIN M. MACLEOD, American Association of Immunologists
VINCENT DU VIGNEAUD, *Chairman*, Cornell University Medical College, New York City
M. O. LEE, *Federation Secretary*, 2101 Constitution Ave., Washington, D. C.

COMMITTEES

Secretaries Committee—E. H. STOTZ, *Chairman*, Biochemistry; C. C. PFEIFFER, Pharmacology; R. L. HOLMAN, Pathology; JAMES M. ORTEN, Nutrition; JOHN Y. SUGG, Immunology; E. F. ADOLPH, Physiology.

Federation Finance Committee—VINCENT DU VIGNEAUD, *Chairman*; D. B. DILL, W. O. FENN, F. S. ROBSCHEIT-ROBBINS, K. K. CHEN.

Federation Members, Joint Finance Committee (with American Physiological Society)—VINCENT DU VIGNEAUD, GEOFFREY EDSALL.

Public Relations—R. W. GERARD, *Chairman*; J. O. HUTCHENS, C. C. PFEIFFER, W. B. WARTMAN.

Federation Advisory Committee to the National Society for Medical Research—F. S. ROBSCHEIT-ROBBINS, *Chairman* (1955); F. C. MANN (1954) R. J. WINZLER (1954), M. L. TAINTER (1953), C. M. MCCAY (1953), HARRY M. ROSE (1955).

Committee on the 19th International Physiological Congress—E. M. LANDIS, *Chairman*; M. B. VISSCHER, SEVERO OCHOA, K. K. CHEN, F. S. ROBSCHEIT-ROBBINS, P. L. DAY, JULES FREUND.

Exhibitors Advisory Committee to the Federation—PAUL DE HAEN, *Chairman*; H. L. ETTMAN, SPENCER FOSSEL, ALBERT GRASS, W. HOLT SEALE, S. K. HERLITZ.

REPRESENTATIVES TO OTHER ORGANIZATIONS

To the Council of the American Association for the Advancement of Science—E. M. K. GEILING, W. PARKER ANSLOW, JR.

To the American Documentation Institute—M. O. LEE.

To the Scientific Manpower Commission—J. H. ROE, M. O. LEE.

FORMER EXECUTIVE COMMITTEES

Philadelphia, Dec. 28–31, 1913

S. J. MELTZER, *Chairman* AND A. J. CARLSON, *Secretary*, The Physiological Society. A. B. MACALLUM and P. A. SHAFFER, The Biochemical Society. T. SOLLMANN and J. AUER, The Pharmacological Society.

St. Louis, Dec. 27–30, 1914

G. LUSK, *Chairman*, and P. A. SHAFFER, *Secretary*, The Biochemical Society. T. SOLLMANN and J. AUER, The Pharmacological Society. R. M. PEARCE and G. H. WHIPPLE, The Pathological Society. W. B. CANNON and A. J. CARLSON, The Physiological Society.

Boston, Dec. 26–29, 1915

TORALD SOLLMANN, *Chairman*, and JOHN AUER, *Secretary*, The Pharmacological Society. THEOBALD SMITH and PEYTON ROUS, The Pathological Society. W. B. CANNON and C. W. GREENE, The Physiological Society. WALTER JONES and P. A. SHAFFER, The Biochemical Society.

New York, Dec. 27–30, 1916

SIMON FLEXNER, *Chairman*, and PEYTON ROUS, *Secretary*, The Pathological Society. W. B. CANNON and C. W. GREENE, The Physiological Society. WALTER JONES and STANLEY R. BENEDICT, The Biochemical Society. REID HUNT and J. AUER, The Pharmacological Society.

Minneapolis-Rochester, Dec. 27–29, 1917

FREDERIC S. LEE, *Chairman*, and CHARLES W. GREENE, *Secretary*, The Physiological Society. CARL L. ALSBERG, and STANLEY R. BENEDICT,

B & Z Library

The Biochemical Society. REID HUNT and L. G. ROWNTREE, The Pharmacological Society. LUDVIG HEKTOEN and HOWARD T. KARSNER, The Pathological Society.

Baltimore, April 24–26, 1918

CARL L. ALSBERG, *Chairman*, and STANLEY R. BENEDICT, *Secretary*, The Biochemical Society. REID HUNT and E. D. BROWN, The Pharmacological Society. H. GIDEON WELLS and HOWARD T. KARSNER, The Pathological Society. FREDERIC S. LEE and CHARLES W. GREENE, The Physiological Society.

Cincinnati, Dec. 29–31, 1919

A. S. LOEVENHART, *Chairman*, and E. D. BROWN, *Secretary*, The Pharmacological Society. W. G. MACCALLUM and HOWARD T. KARSNER, The Pathological Society. WARREN P. LOMBARD and CHARLES W. GREENE, The Physiological Society. STANLEY R. BENEDICT and VICTOR C. MYERS, The Biochemical Society.

Chicago, Dec. 28–30, 1920

WILLIAM H. PARK, *Chairman* and HOWARD T. KARSNER, *Secretary*, The Pathological Society. WARREN P. LOMBARD and CHARLES W. GREENE, The Physiological Society. STANLEY R. BENEDICT and VICTOR C. MYERS, The Biochemical Society. A. S. LOEVENHART and EDGAR D. BROWN, The Pharmacological Society.

New Haven, Dec. 28–30, 1921

J. J. MACLEOD, *Chairman*, and CHARLES W. GREENE, *Secretary*, The Physiological Society. D. D. VAN SLYKE and VICTOR C. MEYERS, The Biochemical Society. C. W. EDMUNDS and EDGAR D. BROWN, The Pharmacological Society. F. G. NOVY and WADE H. BROWN, The Pathological Society.

Toronto, Dec. 27–29, 1922

D. D. VAN SLYKE, *Chairman*, and VICTOR C. MYERS, *Secretary*, The Biochemical Society. C. W. EDMUNDS and EDGAR D. BROWN, The Pharmacological Society. HOWARD T. KARSNER and WADE H. BROWN, The Pathological Society. J. J. R. MACLEOD and CHARLES W. GREENE, The Physiological Society.

St. Louis, Dec. 27–29, 1923

C. W. EDMUNDS, *Chairman*, and EDGAR D. BROWN, *Secretary*, The Pharmacological Society. E. L. OPIE and WADE H. BROWN, The Pathological Society. A. J. CARLSON and CHARLES W. GREENE, The Physiological Society. PHILIP A. SHAFFER and VICTOR C. MYERS, The Biochemical Society.

Washington, Dec. 29–31, 1924

ALFRED S. WARTHIN, *Chairman*, and E. B. KRUMBHAAR, *Secretary*, The Pathological Society. A. J. CARLSON and WALTER J. MEEK, The Physiological Society. P. A. SHAFFER and D. WRIGHT WILSON, The Biochemical Society. JOHN AUER and E. D. BROWN, The Pharmacological Society.

Cleveland, Dec. 28–30, 1925

A. J. CARLSON, *Chairman*, and WALTER J. MEEK, *Secretary*, The Physiological Society. H. C. SHERMAN and D. WRIGHT WILSON, The Biochemical Society. JOHN AUER and E. D. BROWN, The Pharmacological Society. GEORGE H. WHIPPLE and E. B. KRUMBHAAR, The Pathological Society.

Rochester, N. Y., April 14–16, 1927

E. C. KENDALL, *Chairman*, and F. C. KOCH, *Secretary*, The Biochemical Society. JOHN AUER and E. D. BROWN, The Pharmacological Society. W. H. BROWN and E. B. KRUMBHAAR, The Pathological Society. J. ERLANGER and W. J. MEEK, The Physiological Society.

Ann Arbor, April 12–14, 1928

CARL VOEGTLIN, *Chairman*, and E. D. BROWN, *Secretary*, The Pharmacological Society. DAVID MARINE and CARL V. WELLER, The Pathological Society. JOSEPH ERLANGER and WALTER J. MEEK, The Physiological Society. E. V. MCCOLLUM and D. WRIGHT WILSON, The Biochemical Society.

Boston, Aug. 19–24, 1929

(The XIIIth International Physiological Congress)

EDWARD B. KRUMBHAAR, *Chairman*, and CARL V. WELLER, *Secretary*, The Pathological Society. JOSEPH ERLANGER and WALTER J. MEEK, The Physiological Society. E. V. MCCOLLUM and D. WRIGHT WILSON, The Biochemical Society. CARL VOEGTLIN and E. D. BROWN, The Pharmacological Society.

Chicago, March 26–29, 1930

WALTER J. MEEK, *Chairman*, and ALFRED C. REDFIELD, *Secretary*, The Physiological Society. W. R. BLOOR and HOWARD B. LEWIS, The Biochemical Society. CARL VOEGTLIN and E. D. BROWN, The Pharmacological Society. WILLIAM F. PETERSEN and CARL V. WELLER, The Pathological Society.

Montreal, April 8–11, 1931

W. R. BLOOR, *Chairman*, and H. B. LEWIS, *Secretary*, The Biochemical Society. GEORGE B. WALLACE and E. D. BROWN, The Pharmacological

Society. FREDERICK L. GATES and C. PHILLIP MILLER, The Pathological Society. WALTER J. MEEK and ARNO S. LUCKHARDT, The Physiological Society.

Philadelphia, April 27–30, 1932

GEORGE B. WALLACE, *Chairman*, and V. E. HENDERSON, *Secretary*, The Pharmacological Society. SAMUEL R. HAYTHORN and C. PHILLIP MILLER, The Pathological Society. WALTER J. MEEK and ARNO B. LUCKHARDT, The Physiological Society. H. C. BRADLEY and HOWARD B. LEWIS, The Biochemical Society.

Cincinnati, April 10–12, 1933

PEYTON ROUS, *Chairman*, and C. PHILLIP MILLER, *Secretary*, The Pathological Society. ARNO B. LUCKHARDT and FRANK C. MANN, The Physiological Society. H. C. BRADLEY and HOWARD B. LEWIS, The Biochemical Society. WM. DEB. MACNIDER and V. E. HENDERSON, The Pharmacological Society.

New York, March 28–31, 1934

ARNO B. LUCKHARDT, *Chairman*, FRANK C. MANN, *Secretary*, and ALEXANDER FORBES, *Treasurer*, The Physiological Society. W. M. CLARK and H. A. MATTILL, The Biochemical Society. W. DEB. MACNIDER and V. E. HENDERSON, The Pharmacological Society. CARL V. WELLER and C. PHILLIP MILLER, The Pathological Society.

Detroit, April 10–13, 1935

W. M. CLARK, *Chairman*, H. A. MATTILL, *Secretary*, and C. H. FISKE, *Treasurer*, The Biochemical Society. CHARLES W. GREENE and FRANK C. MANN, The Physiological Society. R. A. HATCHER and E. M. K. GEILING, The Pharmacological Society. S. BURT WOLBACH and SHIELDS WARREN, The Pathological Society.

Washington, March 25–28, 1936

V. E. HENDERSON, *Chairman*, E. M. K. GEILING, *Secretary*, and C. M. GRUBER, *Treasurer*, The Pharmacological Society. FRANK C. MANN and ANDREW C. IVY, The Physiological Society. H. B. LEWIS and H. A. MATTILL, The Biochemical Society. OSKAR KLOTZ and SHIELDS WARREN, The Pathological Society.

Memphis, April 21–24, 1937

ALPHONSE R. DOCHEZ, *Chairman*, and SHIELDS WARREN, The Pathological Society. FRANK C. MANN and ANDREW C. IVY, The Physiological Society. HOWARD B. LEWIS and H. A. MATTILL, The Biochemical Society. V. E. HENDERSON and E. M. K. GEILING, The Pharmacological Society. D. R. HOOKER, *Secretary*.

Baltimore, March 30–April 2, 1938

WILLIAM T. PORTER, *Honorary President;* WALTER E. GARREY, *Chairman*, and ANDREW C. IVY, The Physiological Society. GLENN E. CULLEN and H. A. MATTILL, The Biochemical Society. ARTHUR L. TATUM and G. PHILIP GRABFIELD, The Pharmacological Society. C. PHILLIP MILLER and PAUL R. CANNON, The Pathological Society. D. R. HOOKER, *Secretary*.

Toronto, April 26–29, 1939

GLENN E. CULLEN, *Chairman*, and CHARLES G. KING, The Biochemical Society. ARTHUR L. TATUM and G. PHILIP GRABFIELD, The Pharmacological Society. C. PHILLIP MILLER and PAUL R. CANNON, The Pathological Society. WALTER E. GARREY and ANDREW C. IVY, The Physiological Society. D. R. HOOKER, *Secretary*.

New Orleans, March 13–16, 1940

E. M. K. GEILING, *Chairman*, and G. PHILIP GRABFIELD, The Pharmacological Society. ERNEST W. GOODPASTURE and PAUL R. CANNON, The Pathological Society. ANDREW C. IVY and PHILIP BARD, The Physiological Society. WILLIAM C. ROSE and CHARLES G. KING, The Biochemical Society. D. R. HOOKER, *Secretary*.

Chicago, April 15–19, 1941

SHIELDS WARREN, *Chairman*, and H. P. SMITH, The Pathological Society. THORNE M. CARPENTER and L. A. MAYNARD, The Institute of Nutrition. ANDREW C. IVY and PHILIP BARD, The Physiological Society. WILLIAM C. ROSE and CHARLES G. KING, The Biochemical Society. E. M. K. GEILING and G. PHILIP GRABFIELD, The Pharmacological Society. D. R. HOOKER, *Secretary*.

Boston, March 31–April 4, 1942

ALBERT G. HOGAN, *Chairman*, and ARTHUR H. SMITH, The Institute of Nutrition. PHILIP BARD and CARL J. WIGGERS, The Physiological Society. RUDOLPH J. ANDERSON and ARNOLD K. BALLS, The Biochemical Society. E. M. K. GEILING and R. N. BIETER, The Pharmacological Society. JESSE L. BOLLMAN and H. P. SMITH, The Pathological Society. SHIELDS WARREN, *Ex-Chairman*. D. R. HOOKER, *Secretary*.

1943, 1944, 1945: The meetings scheduled for Cleveland were cancelled because of war conditions

PHILIP BARD, *Chairman*, and WALLACE O. FENN, The Physiological Society. E. A. DOISY and ARNOLD K. BALLS, The Biochemical Society. E. K. MARSHALL, JR. and RAYMOND N. BIETER, The Pharmacological Society. BALDUIN LUCKÉ and

H. P. SMITH, The Pathological Society. LEONARD A. MAYNARD and ARTHUR H. SMITH, The Institute of Nutrition. JACQUES J. BRONFENBRENNER and ARTHUR F. COCA, The Association of Immunologists. D. R. HOOKER, *Secretary*.

Atlantic City, March 11–15, 1946

PHILIP BARD, *Chairman*; WALLACE O. FENN, The Physiological Society. A. BAIRD HASTINGS and ARNOLD K. BALLS, The Biochemical Society. ERWIN E. NELSON and RAYMOND N. BIETER, The Pharmacological Society. BALDUIN LUCKÉ and H. P. SMITH, The Pathological Society. WILLIAM C. ROSE and H. E. CARTER, The Institute of Nutrition. JACQUES J. BRONFENBRENNER and ARTHUR F. COCA, The Association of Immunologists. D. R. HOOKER, *Secretary*.

Chicago, May 18–22, 1947

A. BAIRD HASTINGS, *Chairman*, and OTTO A. BESSEY, The Biochemical Society. MAURICE H. SEEVERS and HARVEY B. HAAG, The Pharmacological Society. PAUL R. CANNON and FRIEDA S. ROBSCHEIT-ROBBINS, The Pathological Society. ARTHUR H. SMITH and H. E. CARTER, The Institute of Nutrition. MICHAEL HEIDELBERGER and ARTHUR F. COCA, The Association of Immunologists. WALLACE O. FENN and MAURICE B. VISSCHER, The Physiological Society. WILLIAM H. CHAMBERS, *Secretary*.

Atlantic City, March 15–19, 1948

MAURICE H. SEEVERS, *Chairman*, and HARVEY B. HAAG, The Pharmacological Society. DOUGLAS H. SPRUNT and FRIEDA S. ROBSCHEIT-ROBBINS, The Pathological Society. R. M. BETHKE and H. E. CARTER, The Institute of Nutrition. LLOYD D. FELTON and ARTHUR F. COCA, The Association of Immunologists. WALLACE O. FENN and MAURICE B. VISSCHER, The Physiological Society. HANS T. CLARKE and OTTO A. BESSEY, The Biochemical Society. WILLIAM H. CHAMBERS, *Secretary*.

Detroit, April 18–22, 1949

H. P. SMITH, *Chairman*, and FRIEDA S. ROBSCHEIT-ROBBINS, The Pathological Society. E. M. NELSON and J. H. ROE, The Institute of Nutrition. MICHAEL HEIDELBERGER and JULES FREUND, The Association of Immunologists. MAURICE B. VISSCHER and D. B. DILL, The Physiological Society. HANS T. CLARKE and OTTO A. BESSEY, The Biochemical Society. CARL A. DRAGSTEDT and HARVEY B. HAAG, The Pharmacological Society. M. O. LEE, *Federation Secretary*.

Atlantic City, April 17–21, 1950

C. G. KING, *Chairman*, and J. H. ROE, The Institute of Nutrition. THOMAS FRANCIS, JR., and JULES FREUND, The Association of Immunologists. CARL J. WIGGERS and D. B. DILL, The Physiology Society. CARL F. CORI and RICHARD W. JACKSON, The Biochemistry Society. CARL F. SCHMIDT and H. B. HAAG, The Pharmacology Society. JOHN G. KIDD and SIDNEY C. MADDEN, The Pathology Society. M. O. LEE, *Federation Secretary*.

Cleveland, April 29–May 3, 1951

GEOFFREY EDSALL, *Chairman*, and JULES FREUND, The Association of Immunologists. D. B. DILL and R. W. GERARD, The Physiology Society. H. B. VICKERY and E. H. STOTZ, The Biochemistry Society. CARL F. SCHMIDT and H. B. HAAG, The Pharmacology Society. JAMES F. RINEHART and SIDNEY C. MADDEN, The Pathology Society. W. H. GRIFFITH and J. H. ROE, The Institute of Nutrition. M. O. LEE, *Federation Secretary*.

New York City, April 14–18, 1952

D. B. DILL, *Chairman*, H. E. ESSEX, R. W. GERARD, The Physiology Society. VINCENT DU VIGNEAUD, E. H. STOTZ, H. B. VICKERY, The Biochemistry Society. MCKEEN CATTELL, C. C. PFEIFFER, CARL F. SCHMIDT, The Pharmacology Society. F. S. ROBSCHEIT-ROBBINS, R. L. HOLMAN, J. F. RINEHART, The Pathology Society. C. M. MCCAY, JAMES M. ORTEN, W. H. GRIFFITH, The Institute of Nutrition. COLIN M. MACLEOD, JOHN Y. SUGG, GEOFFREY EDSALL, The Association of Immunologists. M. O. LEE, *Federation Secretary*.

FEDERATION CONSTITUTION AND BYLAWS

Adopted at the New York City meeting, April 17, 1952

CONSTITUTION

Article I. *Name*

The name of this organization is the Federation of American Societies for Experimental Biology.

Article II. *Purpose*

The purposes of the Federation are: to bring together investigators in biological and medical sciences represented by the member Societies; to disseminate information on the results of biological research through publications and scientific meetings; and to serve in other capacities in which the member Societies can function more efficiently as a group than as individual units.

Article III. *Membership*

Section 1. The constituent members of the Federation are, in order of seniority: The American Physiological Society; American Society of Biological Chemists, Inc.; American Society for Pharmacology and Experimental Therapeutics, Inc.; The American Society for Experimental Pathology; American Institute of Nutrition; The American Association of Immunologists.

Section 2. Other societies in the field of biological science may apply for membership, and may be admitted by unanimous consent of the Societies which are members at the time of application.

Section 3. Any constituent Society may withdraw from the Federation one year following written notification to the Federation Board of its intention.

Article IV. *Management*

The management of the Federation shall be vested in a Federation Board, on which each of the constituent Societies shall have equal membership. The Chairman of the Federation Board shall be furnished for a one-year term by each Society in its turn as determined by seniority in the Federation and shall be the immediate Past-President of that Society.

Article V. *Amendments*

Section 1. *Amendments.* Amendments to this Constitution may be proposed by any of the constituent Societies. If approved by a two-thirds majority of the Federation Board, the proposal shall then be referred to the constituent Societies. The amendment shall be adopted when approved by all of the constituent Societies.

Section 2. *Bylaws.* Bylaws may be adopted or amended by the Federation Board at any meeting of the Board by a vote in which at least two of the representatives from each member Society must concur.

BYLAWS

Article I. *The Federation Board*

Section 1. The Federation Board shall consist of the President, the Secretary and the immediate Past-President of each of the constituent Societies. In the absence of a member of the Board, his place may be filled by a substitute designated by the appropriate Society. In the absence of the Chairman, the President of the senior Society for that year shall serve as chairman.

Section 2. The Federation Board shall consider measures of advantage to the Federation. Any constituent Society may refer such measures to the Federation Board for consideration.

Section 3. The Federation Board may take such action, or may authorize the Chairman or the Federation Secretary to take such action, as is approved by at least two representatives of each Society. The actions of the Federation Board shall be reported to the annual business meetings of the member Societies.

Section 4. The Federation Board shall appoint annually a Secretary-Treasurer, to be known as the Federation Secretary, who may present matters to the Federation Board for decision but who shall not be entitled to vote.

Section 5. The Federation Board shall control all monies of the Federation, determine the annual Federation assessment per member of the constituent Societies, set the suscription rates for Federation publications and the fees of the Placement Service, and appropriate monies for use of its authorized committees and the Federation Secretary. The assessment shall be applied to each Society as of July 1 of each year and shall be due the Federation on that date.

Section 6. The Federation Board shall determine times and places of annual meetings of the Federation upon recommendations of the Federation Secretary.

Article II. *Federation Secretary*

The Federation Secretary shall act as secretary to the Federation Board and be responsible for all

Federation records; he shall act as treasurer for the Federation and submit audited financial statements to the Federation Board at the annual meeting; he shall be responsible for making the arrangements for the annual meeting of the Federation; he shall act as managing editor of the publications of the Federation; he shall supervise the Federation's Placement Service and make an annual report on its activity to the Federation Board; and he shall perform such other duties as prescribed by the Federation Board and which do not conflict with the Constitutions and Bylaws of the constituent Societies.

Article III. *Committees and Representatives*

Section 1. The Federation Board shall establish such committees and designate such representatives as desired and receive their reports. The Chairman of the Federation Board shall appoint, with the advice of the Board, the individual committee members and representatives, unless otherwise specified by the Board.

Section 2. A Public Information Committee shall be a standing committee of the Federation.

Section 3. A Secretaries Committee, composed of the Secretaries of the constituent Societies, shall be a standing committee of the Federation. The Chairman of this Committee shall be the Secretary of the senior Society for the year. This Committee shall be responsible for arranging the program of the annual meeting and for setting the registration fee for this meeting, shall act as an editorial board for Federation publications and shall perform such other functions in connection with the annual meeting as prescribed by the Federation Board.

Section 4. The Secretaries Committee shall meet during the winter, and a meeting of the entire Federation Board may be associated with this meeting.

Article IV. *Meetings*

Section 1. The Federation shall hold an annual meeting for presentation of papers at the scientific sessions of the constituent Societies or at general sessions of the Federation and for transaction of business.

Section 2. Abstracts of papers to be read at an annual meeting of the Federation must be submitted to the Secretary of the Society of which the proposer of the paper is a member, and such proposer must be either an author of the paper or introduce the author(s). No person may present orally more than one paper at the Federation meeting except at the invitation of the Secretary of an individual Society. The oral presentation of any paper shall be by the first named author, except by permission of the Secretary of the Society concerned.

Section 3. Each Society shall have the responsibility for selecting and arranging its scientific program and for setting its specific regulations, provided these are not in conflict with the general regulations under Section 2. The authors of the paper may request its transfer to the program of another Society, but this may be done only with the consent of the Secretaries of the two Societies concerned. Secretaries on their own initiative may transfer papers from the program of one Society to that of another. Transfers shall be indicated in the program.

Section 4. The abstracts of papers read at scientific sessions of all constituent Societies at the annual meeting shall be published in the Federation Proceedings. Rules regarding the form and length of the abstracts shall be set by the Secretaries Committee and shall be circulated at least six weeks prior to the date set for receipt of the abstracts.

Article V. *Publications*

The official publications of the Federation shall be Federation Proceedings and such other publications as the Federation Board may authorize. Federation Proceedings shall be owned by the Federation and published under the supervision of the Managing Editor and the Secretaries Committee. Normally, a March issue, in two parts, shall contain the abstracts of papers and the program for the annual meeting. A December issue shall contain the annual list of the members of the Societies and other pertinent information. Two other issues shall contain papers from the Joint Session, symposia and such other material as may be selected by the Secretaries Committee.

Article VI. *Placement Service*

The Federation shall maintain a Placement Service the function of which shall be to assist in the placing of professional personnel in suitable positions.

PLACEMENT SERVICE

The Federation maintains a service to act as a medium of communication between persons seeking positions for teaching or research and institutions that wish to fill vacancies in these sciences.

The service does not undertake to recommend or to pass judgment upon applicants. It aims merely to serve as a clearing-house for such information as above stated and to bring into touch with one another candidates for positions and employers.

Individuals, whether members of the Federation or not, universities, other institutions and organizations desiring to avail themselves of the Service may receive such information as is available.

By action of the Executive Committee in 1951 the following charges were authorized:

Annual applicant registration fee	$ 3
Annual subscription to all lists of the Service	$10
Single copy of fellowship list	$ 2
Single copy of all other lists	$ 5

To be eligible to use the arrangements for interviews at the annual meeting an employer must be an annual subscriber or a subscriber to the then current February list of applicants.

All communications should be addressed to: Federation Placement Service, 2101 Constitution Ave., Washington 25, D. C.

THE AMERICAN PHYSIOLOGICAL SOCIETY

Founded December 30, 1887; Incorporated June 2, 1923

OFFICERS, 1952–1953

President—E. M. LANDIS, Harvard Medical School, Boston, Mass.

President-Elect (Secretary-Treasurer)—E. F. ADOLPH, University of Rochester, Rochester, N. Y.

Past-President—R. W. GERARD, University of Illinois, College of Medicine, Chicago.

Council—E. M. LANDIS, E. F. ADOLPH, R. W. GERARD, H. W. DAVENPORT (1953), L. N. KATZ (1954), H. E. ESSEX (1955), F. A. HITCHCOCK (1956).

Executive Secretary—M. O. LEE, 2101 Constitution Ave., Washington, D. C.

STANDING COMMITTEES

Joint Finance Committee (with Federation)—W. O. FENN, *Chairman*; E. M. LANDIS.

Use and Care of Animals—H. E. ESSEX, *Chairman*; H. W. DAVENPORT, JOHN HALDI (1953), W. F. HAMILTON (1954).

Membership—H. W. DAVENPORT, *Chairman*; L. N. KATZ, J. W. REMINGTON (1953), M. G. LARRABEE (1953), E. C. BLACK (1954), O. E. REYNOLDS (1954).

SPECIAL COMMITTEES

Motion Pictures—W. S. ROOT, *Chairman*; C. McC. BROOKS, R. F. PITTS.

Placement of Senior Physiologists—D. B. DILL.

Porter Fellowship—H. W. DAVENPORT, *Chairman*; T. G. BERNTHAL, F. J. M. SICHEL.

Program Advisory Committee—A. B. HERTZMAN, *Chairman*; W. S. FOWLER, ALEXANDER HOLLAENDER, J. O. HUTCHENS, T. C. RUCH.

Survey of Physiological Science—R. W. GERARD, W. O. FENN, *Chairmen*; A. C. BURTON, JOHN FIELD II, D. R. GODDARD, E. M. LANDIS, M. O. LEE, R. S. MORISON, H. B. STEINBACH, M. L. TAINTER, M. B. VISSCHER.

REPRESENTATIVES TO OTHER ORGANIZATIONS

American Association for the Advancement of Science—G. K. MOE (1955), F. A. HITCHCOCK (1955).

American Documentation Institute—WILLIAMINA A. HIMWICH (1955).

American Institute of Biological Sciences—W. O. FENN (1956).

American Standards Association, Sectional Committee Z59, Fluid Permeation—A. K. PARPART (1953).

Council for Coordination of International Congresses—M. B. VISSCHER.

Council of International Organizations in Medical Sciences—M. B. VISSCHER.

Federation Advisory Committee to National Society for Medical Research—F. C. MANN (1954).

International Union of Physiological Sciences—M. B. VISSCHER, *Chairman* (1958); E. M. LANDIS (1953), F. O. SCHMITT (1955), C. F. SCHMIDT (1955), C. H. BEST (1958).

National Research Council—D. B. DILL, Division of Biology and Agriculture (1955); HALLOWELL DAVIS, Division of Medical Sciences (1953).

Federation Committee on the 19th International Physiological Congress—E. M. LANDIS, *Chairman*; M. B. VISSCHER.

Historian—W. J. MEEK.

Editorial Boards

Board of Publication Trustees—W. O. FENN, *Chairman* (1955); R. F. PITTS (1953), W. F. HAMILTON (1954).

Managing Editor—M. O. LEE.

American Journal of Physiology and Journal of Applied Physiology—E. F. ADOLPH (1954), A. C. BURTON (1954), J. H. COMROE, JR. (1953), R. G. DAGGS (1953), D. B. DILL (1955), H. J. DEUEL, JR. (1955), H. E. ESSEX (1955), L. B. FLEXNER (1955), A. P. GAGGE (1953), C. L. GEMMILL (1955), A. GILMAN (1953), A. GRAYBIEL (1953), FRANCES HELLEBRANDT (1954), D. J. INGLE (1953), L. N. KATZ (1954), E. M. LANDIS (1954), D. P. C. LLOYD (1953), D. RAPPORT (1953), T. C. RUCH (1955), E. SIMONSON (1954), H. B. STEINBACH (1955), A. H. STEINHAUS (1955), J. E. THOMAS (1954), L. M. TOCANTINS (1954).

Physiological Reviews—P. BARD, *Chairman* (1953); G. L. BROWN (1954), W. H. CHAMBERS (1954), B. CHANCE (1954), H. J. CURTIS (1954), JOHN C. ECCLES (1955), H. HOAGLAND (1953), GEORG KAHLSON (1954), S. C. MADDEN (1954), H. W. MAGOUN (1954), H. A. MATTILL (1953), R. H. S. THOMPSON (1955), M. B. VISSCHER (1954), H. L. WHITE (1955).

Annual Review of Physiology—J. P. BAUMBERGER (1954), JOHN FIELD, II (1954), W. F. HAMILTON (1954), M. B. VISSCHER (1954), J. P. QUIGLEY (1955).

PAST OFFICERS

Presidents—**1887** S. WIER MITCHELL. **1888** H. P BOWDITCH. **1889–1890** S. WEIR MITCHELL. **1891–1895** H. P. BOWDITCH. **1896–1904** R. H. CHIT

TENDEN. **1905–1910** W. H. HOWELL. **1911–1913** S. J. MELTZER. **1914–1916** W. B. CANNON. **1917–1918** F. S. LEE. **1919–1920** W. P. LOMBARD. **1921–1922** J. J. R. MACLEOD. **1923–1925** A. J. CARLSON. **1926–1928** J. ERLANGER. **1929–1931** W. J. MEEK. **1932–1933** A. B. LUCKHARDT. **1934** CHARLES W. GREENE. **1935–1936** F. C. MANN. **1937–1938** W. L. GARREY. **1938** W. T. PORTER, *Honorary President*. **1939–1940** A. C. IVY. **1941–1945** P. BARD. **1946–1947** W. O. FENN. **1948** M. B. VISSCHER. **1949** C. J. WIGGERS. **1950** H. C. BAZETT (April to July); D. B. DILL. **1951** R. W. GERARD.

Secretaries—**1887–1892** H. N. MARTIN. **1893–1894** W. P. LOMBARD. **1895–1903** F. S. LEE. **1904** W. T. PORTER. **1905–1907** L. B. MENDEL. **1908–1909** R. HUNT. **1910–1914** A. J. CARLSON. **1915–1923** C. W. GREENE. **1924–1928** W. J. MEEK. **1929** A. C. REDFIELD. **1930–31** A. B. LUCKHARDT. **1932–1934** F. C. MANN. **1935–1938** A. C. IVY. **1939–1940** PHILIP BARD. **1940** C. J. WIGGERS. **1942–1945** W. O. FENN. **1946–1947** M. B. VISSCHER.

Treasurers—**1888–1892** H. N. MARTIN. **1893–1894** W. P. LOMBARD. **1895–1903** F. S. LEE. **1904** W. T. PORTER. **1905–1912** W. B. CANNON. **1913–1923** J. ERLANGER. **1924–1925** C. K. DRINKER. **1926–1935** ALEXANDER FORBES. **1936–1939** W. O. FENN. **1940** C. J. WIGGERS. **1941–1945** HALLOWELL DAVIS. **1946–1947** D. B. DILL.

Executive Secretary—**1948–** M. O. LEE.

CONSTITUTION

I

1. This Society shall be named "THE AMERICAN PHYSIOLOGICAL SOCIETY."

2. The Society is instituted to promote the advance of Physiology and to facilitate personal intercourse between American Physiologists.

II

1. The Society shall consist of members and honorary members.

2. Any person who has conducted and published meritorious original researches in Physiology and who is a resident of North America shall be eligible for membership in the Society.

3. Members who have been relieved by the Council of the payment of the annual assessment shall retain all the rights of members.

4. Distinguished men of science who have contributed to the advance of Physiology shall be eligible for election as honorary members of the Society. Honorary members shall pay no membership fee. They shall have the right of attending the meetings of the Society, and of taking part in its scientific discussions, but they shall have no vote.

III

1. The management of the Society shall be vested in a Council consisting of a President-Elect, President, Past-President for the previous year, and four other members. The President-Elect and one member of the Council shall be chosen by ballot at the Spring meeting. The President-Elect shall serve the normal functions of a Vice-President. The President-Elect shall become President after serving one year as President-Elect or in case of the death or resignation of the President. If the President-Elect has become President prior to the Fall meeting immediately following his election, both a President and a President-Elect shall be elected at the next Spring meeting to serve for the following year. If the President-Elect should die or resign during his year as President-Elect, both a President and a President-Elect shall be elected at the next Spring meeting. The four additional members shall be elected for terms of four years and shall not be eligible to succeed themselves except those who have served for two years or less in filling interim vacancies. A person who has once been President shall not be eligible for re-election as President-Elect. The Council shall select from among its own members a Secretary-Treasurer of the Society and Council. It shall also have the power to appoint and to compensate an Executive Secretary of the Society, who shall not be a voting member of the Council but shall assist it in carrying on the functions of the Society, including the receipt and disbursement of funds under the direction of the Council. If the annual meeting is not held all the members of the Council shall continue in office until their successors are chosen in the prescribed manner in succession. Officers and Councilors shall assume their respective duties on July 1 following their election.

2. The Council shall define the respective duties of the President, Secretary-Treasurer and Executive Secretary.

3. If a member of the Council be elected President-Elect, the vacancy on the Council shall be filled by election of the same meeting, the electee to serve the unexpired term. The Council shall have the power to fill all interim vacancies that may occur in its membership or in any Committee or board of the Society except those for which other provisions have been made.

IV

1. At least a fortnight before a meeting of the Society the Executive Secretary shall send to each member a notice of the place and time of each meeting, and shall make such other announcements as the Council shall direct.

2. The annual member assessment shall be determined by the Council and shall be due in advance on July 1. No allocation or disbursement of funds of the Society shall be made except upon prior approval of the Council. Appropriations shall

be made by the Council for the conduct of the necessary and appropriate business of the Society.

3. Any member whose assessment is two years in arrears shall cease to be a member of the Society, unless at the next Spring meeting he shall be reinstated by special vote of the Society; and it shall be the duty of the Secretary-Treasurer to notify the said delinquent of his right to appeal at the said meeting.

4. Any member who has retired because of illness or age may, upon application to the Council, be relieved from payment of the annual assessment.

V

1. A meeting of the Society for transacting business, the election of officers and members, and presenting communications shall be held in the Spring, except in the case of national emergencies or other exceptional circumstances, when the Council may decide on postponement. The time and place of such meetings shall be determined by the Council in consultation with the Executive Committee of the Federation of American Societies for Experimental Biology.

2. A Fall meeting of the Society may be held at a time and place determined by the Council for presenting communications and transacting any business except the election of officers and members. Special meetings may be held at such times and places as the Council may determine.

VI

1. Proposed amendments to the Constitution must be brought up at one meeting for preliminary discussion and approval by a majority vote and cannot be adopted except by a two-thirds vote at a business session at the next Spring meeting. Notice of such changes shall be sent to all members at least two weeks prior to the meeting at which they are scheduled for adoption.

2. At all business meetings of the Society twenty-five members shall form a quorum.

3. By-laws for the conduct of the Society may be adopted, altered, or repealed at any business meeting by two-thirds vote of the ballots cast.

VII

1. The Council may, from the names of the candidates proposed in writing by at least two members of the Society, nominate candidates for election to membership. The names of the candidates so nominated and a statement of their qualifications for membership signed by their proposers shall be available for inspection during the business sessions of the Society at which their election is considered. The candidates may be balloted for at any session of the same meeting and a majority vote shall elect. If a Spring meeting is not held, the Society shall elect candidates to membership at the next Spring meeting.

2. Honorary members shall be proposed by the Council, and shall be elected by a majority ballot of the members present at the Spring meeting of the Society.

VIII

1. If a majority of the Council shall decide that the interests of the Society require the expulsion of a member, the Secretary-Treasurer shall send a notice of this decision to each member at least two weeks before the next annual meeting. At this meeting the Secretary-Treasurer shall on behalf of the Council, propose the expulsion; and if two-thirds of the members present vote for it, the member shall be expelled, and his assessment for the current year shall be returned to him, and he shall cease to be a member of the Society.

IX

1. The official organs of the Society shall be the *American Journal of Physiology*, the *Journal of Applied Physiology*, *Physiological Reviews* and such other publications as the Society shall establish. These the Society shall own and they shall be managed according to the provisions of Article X.

X

1. The President of the Society shall appoint, in consultation with the Council and subject to the approval of the Society, three members of the Society to serve as members of a Board of Publication Trustees.

2. The initial appointments shall be for one, two and three years. Thereafter, each member shall be appointed for three years, and shall be eligible for one immediate reappointment. He may be subsequently reappointed, but only after the lapse of at least one year between reappointments.

3. The Board of Publication Trustees shall be vested with full power of the Society to control and manage, both editorially and financially, all of the publications owned in whole or in part by the Society; to appoint editorial boards; to appoint and compensate a Managing Editor; and to control all publication funds, none of which, however, may be diverted from support of publications of the Society except by consent of the Council.

4. The Board of Publication Trustees shall make a full report to the Council at each annual meeting of the financial condition and publication policy of the Journals or other publications.

BY-LAWS

1. All papers read before the Society shall be limited to a length of ten minutes. No person may

orally present more than one paper. In case of joint authorship the name of the individual who will orally present the paper shall stand first.

2. Abstracts in duplicate, not to exceed two hundred and fifty words in length, of all papers to be presented at the annual meeting of the Society shall be required by the Secretary for publication in the *Federation Proceedings*, in accordance with rules approved by the Council.

3. The Council shall upon the request of twenty-five members call a regional meeting of the Society at any time and place, for the reading of papers and the promotion of personal intercourse. Such a request shall be made in writing at least six weeks before the proposed date of meeting. Such meeting shall be held in accordance with the Constitution and By-laws of the Society, and if the regular officers of the Society cannot be present the President shall appoint a committee from among the petitioners to conduct the meeting. The Committee through a Secretary chosen by them shall forward an account of the scientific proceedings of the meeting to the official Secretary of the Society for insertion in the minutes.

4. No general business of the Society shall be transacted at such regional meetings.

AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS

Founded December 6, 1906; Incorporated September 12, 1919

OFFICERS, COMMITTEES AND REPRESENTATIVES FOR 1952–1953

President—H. A. MATTILL, State University of Iowa, Iowa City (1952–53).

Vice-President—D. W. WILSON, University of Pennsylvania Medical School, Philadelphia (1952–53).

Secretary—E. H. STOTZ, University of Rochester School of Medicine and Dentistry, Rochester, N. Y. (1952–53).

Treasurer—P. P. COHEN, University of Wisconsin, Madison (1952–53).

Council—H. A. MATTILL, D. W. WILSON, E. H. STOTZ, P. P. COHEN, H. E. CARTER (1952–55), C. F. CORI (1950–53), W. M. STANLEY (1951–54).

STANDING COMMITTEES

Editorial Board—R. J. ANDERSON (1931; *Managing Editor*, 1935–42; 1942—); R. M. ARCHIBALD (1948–53), E. G. BALL (1950–55), A. K. BALLS (1951–56), K. BLOCH (1951–56), H. E. CARTER (1950–55), C. F. CORI (1941), E. A. DOISY (1938), V. DU VIGNEAUD (1948–53), J. S. FRUTON (1948–53), W. H. GRIFFITH (1949–54), S. GURIN (1951–56), A. B. HASTINGS (1941), L. HELLERMAN (1951–56), H. B. LEWIS (1938), H. S. LORING (1950–55), S. MOORE (1950–55), S. OCHOA (1950–55), E. E. SNELL (1949–54), W. M. SPERRY (1949–54), E. L. TATUM (1948–53), H. B. VICKERY (1941), H. G. WOOD (1949–54), O. WINTERSTEINER (1951–56).

Editorial Committee—H. A. MATTILL (1947–53; *Chairman*, March 3, 1948); W. R. BLOOR (1947–53), R. K. CANNAN (1949–55), J. T. EDSALL (1951–57), C. G. KING (1947–53), J. M. LUCK (1949–55), H. NEURATH (1951–57), L. C. NORRIS (1951–57), D. W. WILSON (1949–55).

Nominating Committee—S. OCHOA (1951–52; 1952–53) *Chairman and Secretary*; E. G. BALL (1952–53), H. B. BULL (1952–53), J. S. FRUTON (1951–52; 1952–53), W. H. GRIFFITH (1951–52; 1952–53), C. G. KING (1951–52; 1952–53), H. A. LARDY (1952–53), H. B. LEWIS (1952–53), H. G. WOOD (1952–53).

Historian—P. A. SHAFFER.

Legal Counselor—LLOYD N. SCOTT.

SPECIAL COMMITTEES

Membership Committee, 1952–1953—L. HELLERMAN, *Chairman*; H. BORSOOK, E. A. DOISY, W. H. GRIFFITH, E. E. SNELL.

Biochemical Nomenclature (Joint with American Institute of Nutrition) 1952–53 (April 15, 1941)—A. K. BALLS, *Chairman*; J. S. FRUTON.

Clinical Chemistry, 1952–53 (March 11, 1946)—W. M. SPERRY, *Chairman*; R. N. HARGER, R. M. HILL, J. REINHOLD, H. SOBOTKA, W. A. WOLFF.

Committee on Terminology of Isotopically Labeled Compounds and Presentation of Data on Use of Isotopes (1952–53)—G. B. BROWN, *Chairman*; H. E. CARTER, C. HEIDELBERGER, B. RIEGEL, D. RITTENBERG, H. G. WOOD.

Finance Committee 1952–53—E. A. EVANS, JR., *Chairman* (1951–56), R. J. ANDERSON (1951–), P. P. COHEN (1951–53), H. A. MATTILL (1952–53).

Professional Training of Biochemists, 1952–53 (November 29, 1945)—C. A. ELVEHJEM, *Chairman*; W. M. CLARK, E. A. DOISY, J. S. FRUTON, H. B. LEWIS.

Revision of By-Laws, 1952–53 (May 1, 1951)—C. G. KING, *Chairman*, A. K. BALLS, K. BLOCH.

REPRESENTATIVES TO OTHER ORGANIZATIONS

American Association for the Advancement of Science (April 18, 1941)—W. D. ARMSTRONG (1952–53), D. BURK (1952–53).

American Documentation Institute (1937)—A. SEIDELL (January 1, 1950–53).

International Committee for Biochemistry (1949)—S. OCHOA (1952–53).

National Research Council—A. K. BALLS, Division of Biology and Agriculture (1951–54), A. G. HOGAN, Agricultural Research Inst. (1952–53), J. S. FRUTON, Division of Chemistry and Chemical Technology (1951–54), P. GYORGY, Division of Medical Sciences (1952–53).

PAST OFFICERS

Presidents—**1907** RUSSELL H. CHITTENDEN. **1908** JOHN J. ABEL. **1909** OTTO FOLIN. **1910** THOMAS B. OSBORNE. **1911** LAFAYETTE B. MENDEL. **1912–1913** ARCHIBALD B. MACALLUM. **1914** GRAHAM LUSK. **1915–1916** WALTER JONES. **1917–1918** CARL L. ALSBERG. **1919–1920** STANLEY R. BENEDICT. **1921–1922** D. D. VAN SLYKE. **1923–1924** PHILIP A. SHAFFER. **1925** HENRY C. SHERMAN. **1926** EDWARD C. KENDALL. **1927–1928** E. V. MCCOLLUM. **1929–1930** W. R. BLOOR. **1931–1932** H. C. BRADLEY. **1933–1934** W. M. CLARK. **1935–1936** H. B. LEWIS. **1937–1938** G. E. CULLEN. **1939–1940** WILLIAM C. ROSE. **1941–1942** R. J. ANDERSON. **1943–1944** E. A. DOISY. **1945–1946** A. B. HASTINGS. **1947–1948** HANS T. CLARKE. **1949** CARL F. CORI. **1950** H. B. VICKERY. **1951** V. DU VIGNEAUD.

Vice-Presidents—**1907** J. J. ABEL. **1908** OTTO FOLIN. **1909** T. B. OSBORNE. **1910** L. B. MENDEL. **1911** A. B. MACALLUM. **1912–1913** GRAHAM LUSK.

1914–1915 C. L. Alsberg. **1916** F. P. Underhill. **1917–1918** A. P. Mathews. **1919–1920** D. D. Van Slyke. **1921–1922** P. A. Shaffer. **1923–1924** Henry C. Sherman. **1925** E. C. Kendall. **1926** E. V. McCollum. **1927–1928** W. R. Bloor. **1929–1930** H. C. Bradley. **1931–1932** W. M. Clark. **1933–1934** H. B. Lewis. **1935–1936** G. E. Cullen. **1937–1938** W. C. Rose. **1939–1940** R. J. Anderson. **1941–1942** E. A. Doisy. **1943–1944** A. B. Hastings. **1945–1946** H. T. Clarke. **1947–1948** C. F. Cori. **1949** H. B. Vickery. **1950** V. du Vigneaud. **1951** H. A. Mattill.

Secretaries—**1907–1909** W. J. Gies. **1910–1912** A. N. Richards. **1913–1915** P. M. Shaffer. **1916–1918** S. R. Benedict. **1919–1923** V. C. Myers. **1924–1925** D. W. Wilson. **1926** Fred C. Koch. **1927–1928** D. W. Wilson. **1929–1932** H. B. Lewis. **1933–1937** H. A. Mattill. **1938–1940** C. G. King. **1941–1945** A. K. Balls. **1946–1948** Otto A. Bessey. **1949** R. W. Jackson. **1950–** E. H. Stotz.

Treasurers—**1907–1909** L. B. Mendel. **1910–1912** Walter Jones. **1913–1916** D. D. Van Slyke. **1917–1921** H. C. Bradley. **1922–1925** W. R. Bloor. **1926–1930** G. E. Cullen. **1931–1935** C. H. Fiske. **1936–1940** A. B. Hastings. **1941–1945** W. C. Stadie. **1946–1950** E. A. Evans, Jr. **1951–** P. P. Cohen.

CONSTITUTION

From the Articles of Incorporation

1. The name of the proposed corporation is "American Society of Biological Chemists, Incorporated."

2. The purposes for which this corporation is formed are to further the extension of biochemical knowledge and to facilitate personal intercourse between American investigators in biological chemistry.

BY-LAWS

Article I. *Membership*

Section 1. *Eligibility for Membership.* Qualified investigators who have conducted and published meritorious original investigations in biological chemistry shall be eligible for membership in the Society.

Section 2. *Nomination.* Nominations for membership shall be made and seconded by members of the Society on blanks furnished by the Secretary. Nominations shall be submitted to the Council who shall determine eligibility and make recommendation to the Society at a regular meeting.

Section 3. *Election to Membership.* A. A nominee for membership may be voted for by ballot at any meeting of the Society after the Council has reported its findings on his eligibility. The eligible candidate shall be reported by the Council as "eligible" or as "eligible and indorsed." B. A majority of the ballots cast shall elect.

Section 4. *Forfeiture.* A. Any member who may grant the use of his name for (a) the advertisement of a patent medicine, a proprietary food preparation, or any other commercial article of doubtful value to the public or possibly harmful to the public health, or (b) who may concede its use for the purpose of encouraging the sale of individual samples (of any such product) that he has not examined, shall forfeit his membership.

B. The Council shall have authority to announce forfeiture of membership, provided that the copy of the charges, together with a written notice of a hearing thereon by the Council at a place and time specified in such notice, shall have been delivered to the member charged with violating the preceding section either personally or mailed to him at his last known address at least thirty days before the date of such hearing.

Section 5. *Expulsion.* Upon the recommendation of the Council any member may be expelled by a majority vote of the total membership at a meeting of the Society, provided that a copy of the charges against him, together with a written notice of a hearing thereon by the Council at a place and time specified in such notice shall have been delivered to him personally or mailed to him at his last known address at least thirty days before the date of such hearing.

Article II. *Meetings and Quorum*

Section 1. *Annual.* The annual meeting of the Society shall be held on the date fixed by the Certificate of Incorporation.

Section 2. *Special.* A special meeting may be called at any time by the President, or in case of his absence or disability, by the Vice-President, and must be called at the request of a majority of the Council or fifteen members of the Society. A notice specifying the purpose of such meeting shall be mailed to each member at least ten days previous thereto. The Council shall select the places at which meetings shall be held.

Section 3. *Quorum.* Fifteen members shall constitute a quorum at all meetings of the Society, but in absence of a quorum any number shall be sufficient to adjourn to a fixed date.

Article III. *Officials*

Section 1. *Officers.* The officers shall be a President, a Vice-President, a Secretary, and a Treasurer, who shall be elected annually by the members of the Society.

Section 2. *Council.* A. The Officers so elected and three additional members, one of whom shall be elected at each annual meeting of the Society to serve a three year term, shall constitute the Board of Directors of the corporation and shall be known as "The Council." (When this provision is first put into effect three members will need to be elected for a one, a two and a three year period.)

B. No two members of the Council may be from

the same institution, and none of the officers so elected shall be eligible for re-election for more than two years except the Secretary and Treasurer, who shall be eligible for re-election for five years. The three additional members of the Council shall be ineligible for re-election (until after the lapse of one year).

SECTION 3. *Duties of Officers.* The powers and duties of the officers elected by the Society shall be such as usually devolve upon their respective positions.

SECTION 4. *Assistant Treasurer.* A. The Council may from time to time appoint a trust company, or some member of the Society, to serve during the pleasure of the Council as Assistant Treasurer, and to act as depositary of the investments and income of the "Christian A. Herter Memorial Fund" and of such other funds as the Society may from time to time commit to its or his charge.

B. The Assistant Treasurer shall have and exercise the following powers and duties, viz., the custody and safe-keeping of securities and cash belonging to the "Christian A. Herter Fund" and the collection of income and other moneys due to the Fund, with power to receipt for the same and to endorse for deposit all checks payable to the Society or the Treasurer, or to the Journal of Biological Chemistry for income or other moneys due to the Fund, the investment or reinvestment of the capital of the Fund, subject to the approval of the Council; the disbursement of principal under the direction of the Council and the disbursement of income under the direction of the Editorial Board of the Journal of Biological Chemistry, such disbursement to be made under a resolution of the Council or Board, or with the approval of two members of either the Council or Board, as the case may be. The Assistant Treasurer shall keep books of account and render statements, annually or oftener upon the request of the Council or Board setting forth the condition of the Fund and the receipts and disbursements since the date of the preceding statement.

ARTICLE IV. *The Council*

SECTION 1. *Powers.* The general management of the Society during the intervals between meetings shall be vested in the Council, which shall regularly perform the ordinary duties of an executive committee and possess all the powers conferred upon the Board of Directors of a membership corporation by the Membership Corporation Law of the State of New York.

SECTION 2. *Reports.* The Council shall report to the Society as promptly as possible its findings on the eligibility of candidates for membership, and on all charges of a violation of these By-Laws.

SECTION 3. *Journal of Biological Chemistry.* The Council shall have power to appoint the persons to act as proxies for the Society at all meetings of the stockholders of the "Journal of Biological Chemistry" (a corporation) of which all the stock is owned by the Society, and also to designate the persons to be elected as Directors of such corporation.

SECTION 4. *Herter Fund.* It shall be the duty of the Council to see that the "Christian A. Herter Memorial Fund" is administered in accordance with the terms of the Trust Agreement, dated May 16, 1911, executed by the Journal of Biological Chemistry and the donors of said Fund.

ARTICLE V. *Nominating Committee*

SECTION 1. *Membership.* A. The Nominating Committee shall consist of nine members from nine different institutions elected at each annual meeting to serve for the ensuing year. Members who have served on the Nominating Committee for two consecutive years shall be ineligible for re-election until after the lapse of one year.

B. The member of the Nominating Committee who is elected to the Committee by the largest number of votes shall become Chairman and Secretary of the Committee.

SECTION 2. *Nomination of Officials.* A. The Nominating Committee shall make at least one nomination for each of the four offices and for each of the three additional positions in the Council to be filled by vote of the members.

B. The nominations by the Nominating Committee must be transmitted to the Secretary at least one month before the annual meeting at which they are to be considered.

C. The Secretary shall send to every member, at least two weeks before the annual meeting, two copies of the list of nominees presented to him by the Nominating Committee and at the same time shall notify all the members that they may vote by proxy.

D. At the opening of the first executive session of the ensuing annual meeting the Secretary shall formally present the regular nominations for the Nominating Committee.

E. Additional nominations for the offices and for membership in the Council may be made by any member at the opening of the first executive session of any annual meeting.

F. Nominations for membership on the Nominating Committee shall be made by or for individual members, either in person or by proxy, and not otherwise, at the opening of the first executive session of any annual meeting.

SECTION 3. *Election of Officials.* A. The Secretary shall receive and present to the tellers, appointed by the President to take charge of the election, all signed ballots forwarded by absent members. When such ballots are presented to the tellers the Secretary shall announce the names of the mem-

bers voting by proxy, and he shall record the same names in the minutes of the meeting.

B. All elective officials shall be selected by ballot at the close of the first executive session of each annual meeting.

C. A majority of the votes cast shall be necessary to elect an official.

D. Elective officials shall take office on July 1st following the annual meeting.

SECTION 4. *Filling of Vacancies.* A. The Nominating Committee shall fill all vacancies in elective positions except such as may occur at a meeting of the Society.

B. The President of the Society shall fill all vacancies in appointive positions.

ARTICLE VI. *Financial*

SECTION 1. *Dues.* Annual assessments shall be determined by majority vote at the annual meetings, upon the recommendation of the Council, and shall be due January 15th in each year. Members who have reached the age of 65 years, or who have become incapacitated, may, by vote of the Council, be exempted from the payment of dues.

SECTION 2. *Expenditures.* No expenditures from the general funds of the Society except those required in the performance of the ordinary official duties shall be made except by vote of the Society or the Council, but this section shall not apply to expenditures from the "Christian A. Herter Memorial Fund."

SECTION 3. *Privileges of Membership Begin with Payment of Dues.* Candidates for membership, if elected, shall not be entitled to any of the privileges of membership, before they pay the dues of the fiscal year succeeding their election.

SECTION 4. *Penalty for Non-Payment of Dues.* A. Members in arrears for dues for a period of three consecutive years shall thereupon forfeit their membership.

B. Delinquent members may be reinstated by the Council provided all indebtedness to the Society is liquidated.

SECTION 5. *Herter Fund.* The "Christian A. Herter Memorial Fund" shall be held and invested separately from the general funds of the Society and the income thereof shall be expended under the direction of the Editorial Board exclusively for the maintenance and support of the Journal of Biological Chemistry, subject to the supervision and control of the Editorial Committee in accordance with the terms of the Trust Agreement mentioned in ARTICLE IV, SECTION 4, and the provisions of ARTICLE VII of the By-Laws.

ARTICLE VII. *Journal of Biological Chemistry*

SECTION 1. *Editorial Committee.* There shall be an Editorial Committee consisting of nine members of the Society who shall be nominated by the Nominating Committee and elected by the Society in the same manner as officers. The nine members first elected shall divide themselves by lot into three classes of three in each class, to serve for two, four, and six years respectively, and thereafter three members shall be elected at each alternate annual meeting of the Society to succeed the members of the outgoing class and to serve for a term of six years. Members of the Committee shall be eligible to re-election.

SECTION 2. *Powers of Committee.* The Committee shall have power to elect an Editorial Board and shall have final authority in matters pertaining to the general policy of the Journal.

SECTION 3. *Editorial Board.* The members of the Board shall hold office until their successors are elected and shall appoint a Managing Editor from among their own number who shall have direct responsibility and authority for the active editorial conduct of the Journal, and who shall have discretionary power in arranging the details as to the conduct of the Journal. The expenditures of the income of the "Christian A. Herter Memorial Fund" shall be under the direction of the Board, and the approval of any two members of the Board shall be a sufficient warrant to authorize payments from such income.

ARTICLE VIII. *Papers on Scientific Subjects*

SECTION 1. *Presentation of Papers.* The Secretary shall request each member who signifies his intention of reading a paper at any session to specify the length of time which its presentation will require. The time thus specified shall be printed on the official program, and the presiding officer shall have no authority to extend it unless a majority of the members present signify their wish to the contrary. In the absence of any specification of time required not more than ten minutes shall be allotted for the reading of any one paper.

SECTION 2. *Number of Papers.* No member shall be permitted to present more than one paper, either alone or in collaboration, until every member shall have had the opportunity of presenting one paper.

ARTICLE IX. *Corporate Seal*

SECTION 1. The corporate seal of the corporation shall be a circle surrounded by the words, "AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS," and including the word, "INCORPORATED."

ARTICLE X. *Amendments*

SECTION 1. *Amendments.* These By-Laws, after having been approved by the Council, and adopted by the Society at its first annual meeting, shall not be amended except as hereinafter provided.

SECTION 2. *Manner of Presentation.* Proposed amendments to the By-Laws must be sent to the Secretary at least one month before the date of the meeting at which they are to be considered and must be indorsed in writing by at least three members.

SECTION 3. *Notice of Intended Amendments.* Secretary shall give every member notice of proposed amendments at least two weeks before the meeting at which they are to be considered and shall notify all members that they may vote by proxy.

SECTION 4. *Adoption of Amendments.* A. The Secretary shall receive and present to the tellers appointed by the President all signed ballots forwarded by absent members. When such ballots are presented to the tellers, the Secretary shall announce the names of members voting by proxy, and he shall record the same names in the minutes of the meeting.

B. Votes upon amendments shall be cast at the opening of the second executive session of the meeting at which they are considered.

C. Affirmative votes from three-fifths of the members voting shall be required for the adoption of an amendment.

AMERICAN SOCIETY FOR PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS

Founded December 28, 1908; Incorporated June 19, 1933

OFFICERS, 1952-1953

President—K. K. CHEN, Lilly Research Laboratories, Indianapolis, Ind.

President-Elect—HARVEY B. HAAG, Medical College of Virginia, Richmond.

Secretary—CARL C. PFEIFFER, University of Illinois College of Medicine, Chicago.

Treasurer—ROBERT P. WALTON, Medical College of the State of South Carolina, Charleston.

Past President—MCKEEN CATTELL, Cornell University Medical College, New York City.

Council—K. K. CHEN, HARVEY B. HAAG, CARL C. PFEIFFER, ROBERT P. WALTON, MCKEEN CATTELL, PETER K. KNOEFEL (1953), L. S. GOODMAN (1954), ALLAN D. BASS (1955).

Membership Committee—G. H. ACHESON, *Chairman* (1953), O. SIDNEY ORTH (1954), ALFRED GILMAN (1955).

Nominating Committee—R. K. RICHARDS, *Chairman*; M. B. CHENOWETH, C. L. GEMMILL, T. J. HALEY, W. C. WESCOE.

Historian—E. M. K. GEILING.

Representatives to the Council of the American Association for the Advancement of Science—HELEN T. GRAHAM, O. H. LOWRY.

Representative to the Division of Medical Sciences, National Research Council—MCKEEN CATTELL.

Editorial Boards

Board of Publications Trustees—M. H. SEEVERS, *Chairman* (1954); ARNOLD D. WELCH (1953), C. A. DRAGSTEDT (1955).

Journal of Pharmacology and Experimental Therapeutics—H. B. VAN DYKE, *Editor;* W. C. WESCOE, OSCAR BODANSKY, SEYMOUR S. KETY, E. K. MARSHALL, JR., LLOYD C. MILLER, GORDON K. MOE, WALTER F. RIKER, JR., LEON H. SCHMIDT, JAMES A. SHANNON.

Pharmacological Reviews—L. S. GOODMAN, *Editor*, J. H. BURN, THOMAS C. BUTLER, HARRY EAGLE, U. S. v. EULER, J. H. GADDUM, ALFRED GILMAN, ERIK JACOBSEN, OTTO KRAYER, MILES WEATHERALL.

PAST OFFICERS

Presidents—**1909-1912** J. J. ABEL. **1913-1915** T. SOLLMANN. **1916-1918** REID HUNT. **1919-1920** A. S. LOEVENHART. **1921-1923** C. W. EDMUNDS. **1924-1926** JOHN AUER. **1927-1929** CARL VOEGTLIN. **1930-1931** G. B. WALLACE. **1932-1933** W. DE B. MACNIDER. **1934** R. A. HATCHER. **1935-1936** V. E. HENDERSON. **1937-1938** A. L. TATUM. **1939** O. H. PLANT. **1940-1941** E. M. K. GEILING. **1942-1943** E. K. MARSHALL, JR. **1944-1945** E. E. NELSON. **1946-1947** M. H. SEEVERS. **1948** C. A. DRAGSTEDT. **1949-1950** C. F. SCHMIDT. **1951** MCKEEN CATTELL.

Vice-Presidents—**1932** A. N. RICHARDS. **1933-1934** A. L. TATUM. **1935-1936** O. H. PLANT. **1937-1939** E. M. K. GEILING. **1940-1941** C. F. SCHMIDT. **1942-1943** C. A. DRAGSTEDT. **1944-1945** C. M. GRUBER. **1946** H. B. VAN DYKE. **1947** C. A. DRAGSTEDT. **1948** H. B. VAN DYKE. **1949** J. C. KRANTZ. **1950** MCKEEN CATTELL.

Secretaries—**1909-1911** REID HUNT. **1912-1916** J. AUER. **1917** L. G. ROUNTREE. **1918-1930** E. D. BROWN. **1931-1933** V. E. HENDERSON. **1934-1936** E. M. K. GEILING. **1937-1940** G. P. GRABFIELD. **1941-1945** R. N. BIETER. **1946-1950** H. B. HAAG. **1951-** C. C. PFEIFFER.

Treasurers—**1909-1913** A. S. LOEVENHART. **1914-1920** W. DEB. MACNIDER. **1921-1923** H. MCGUIGAN. **1924-1928** A. L. TATUM. **1929-1934** O. H. PLANT. **1935-1938** C. M. GRUBER. **1939-1943** E. E. NELSON. **1944-1946** MCKEEN CATTELL. **1947-1950** K. K. CHEN. **1951-** R. P. WALTON.

CONSTITUTION

ARTICLE I. *Name*

The name of this organization shall be the "AMERICAN SOCIETY FOR PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS, INCORPORATED."

ARTICLE II. *Objects*

The purpose of this Society shall be to promote these branches of science and to facilitate personal intercourse between investigators who are actively engaged in research in these fields.

ARTICLE III. *Membership*

SECTION 1. Any person who has conducted and published a meritorious investigation in pharmacology or experimental therapeutics, and who is an active investigator in one of these fields, shall be eligible to membership, subject to the conditions of the other sections of Article III.

SECTION 2. A. Candidates for membership to this Society shall be proposed by two members who are not members of the Council. The names so proposed shall be sent to the Secretary at least three months prior to the Annual Meeting.

B. The Membership Committee shall investi-

gate the qualifications of the candidates and report to the Council.

C. Candidates reported upon by the Membership Committee to the Council may be recommended for admission by the Council only provided they have been approved by four-fifths of the combined membership of the Membership Committee and the Council.

D. The names of the candidates recommended for admission by the Council shall be posted by the Secretary not later than the day preceding the election for members.

E. The election of members shall be by individual ballot; one opposing vote in every eight cast shall be sufficient to exclude a candidate from membership.

SECTION 3. *Forfeiture of Membership.*

A. Any member whose assessment is three years in arrears shall cease to be a member of the Society, unless he shall be reinstated by a special vote of the Council; and it shall be the duty of the Treasurer to inform the Secretary that he may notify the said delinquent of his right to appeal to the Council.

B. If the Council shall decide that it is for the best interests of the Society that a member be expelled, the member shall be notified and given an opportunity of a hearing before the Council. Upon the recommendation of the Council the member then may be expelled by a three-fourths vote of those present at a regular meeting of the Society.

SECTION 4. *Honorary Members.*

A. Distinguished men of science who have contributed to the advance of pharmacology or experimental therapeutics shall be eligible for election as honorary members of the Society.

B. Nominations for honorary members shall take the same course as nominations for ordinary members (Art. III, Sec. 2); but their election shall require the unanimous vote of the members present at the election.

C. Honorary members shall pay no membership fee. They shall have the right to attend all meetings of the Society, and to take part in its discussions, but they shall have no vote.

D. The conditions for continuation of membership shall be the same for honorary as for ordinary members (Art. III, Sec. 3), except that forfeiture for arrears of fees does not apply to honorary members.

ARTICLE IV. *Officers and Elections*

SECTION 1. *Officers and Committees*

A. The management of the Society shall be vested in a Council of eight officers consisting of a President, President-Elect, Past President, Secretary, Treasurer of the Society, and three Councilors-at-Large.

B. The President-Elect, Secretary, Treasurer and one Councilor-at-Large shall be elected at each annual meeting. The Secretary and Treasurer may succeed themselves. The President-Elect shall assume the duties of President at the adjournment of the next annual meeting following his election. No person who has served as President is eligible for re-election as President-Elect.

C. The three Councilors-at-Large shall serve for a period of three years, and shall not be eligible for immediate re-election.

D. There shall be a Membership Committee, consisting of three members. No two members shall be from the same institution. The election of the Membership Committee shall be held annually at the time when the election of officers occurs. At the first meeting of the Society under this constitution, one member shall be elected to serve on the Committee for three years, one for two years, and one for one year; and subsequently one member shall be elected each year to serve for a period of three years.

E. There shall be a Nominating Committee of five members. No two members shall be from the same institution. Members of the Nominating Committee shall serve for one year. They are eligible for re-election, but shall not hold membership in the Committee for more than two consecutive years.

F. No person may hold dual membership on the Council, Membership or Nominating Committees.

G. Members of the Nominating Committee are not eligible to nomination for other office.

SECTION 2. *Nomination of Officials and Committeemen*

A. The Nominating Committee shall make at least one nomination for each office and for the position on the Membership Committee to be filled by vote of the members. The nominations so made shall be transmitted to the Secretary and by him in turn to the members, at least one month before the annual meeting.

B. Nominations for membership on the Nominating Committee shall be made by individual members at the time of the annual election. The five nominees who receive the highest numbers of votes shall be declared elected. The Nominating Committee shall select its own Chairman who shall serve as Secretary to the Committee.

SECTION 3. *Election of Officials and Committeemen*

A. At the opening of the first executive session of the annual meeting the Secretary shall give to each member present a printed ballot showing the nominations of the Nominating Committee. After accepting additional nominations from individual members present a complete list of nominees shall be posted. A preliminary vote shall then be taken and the tellers, appointed by the President to

conduct the election, shall post immediately a final list showing the two nominees for each office receiving the highest number of votes. At the close of the first session, a final vote shall be taken. A majority of votes cast shall be necessary to a choice.

B. Such vacancies as may occur in the offices and in the various committees in the interval between annual meetings shall be filled by a majority vote of the Council.

Article V. *Meetings*

Section 1. The annual meeting of the Society shall be held at a time and place determined by the Council in consultation with the Executive Committee of the Federation of American Societies for Experimental Biology.

Section 2. Special meetings may be held at such times and places as the Council may determine.

Section 3. At least four weeks before the annual meeting the Secretary shall send to each member a notice of the time and place of such meeting and shall make such announcements as the Council may direct.

Article VI. *Financial*

Section 1. The annual assessment shall be determined by majority vote at the annual Spring meeting, upon the recommendation of the Council, and shall be due at the close of each such meeting.

Section 2. Beyond the ordinary expenditures required by the routine business of the Society no money shall be disbursed save by the authority of the Council or Society.

Section 3. The treasurer shall make an annual report to the Society.

Section 4. All publication funds shall be kept in a separate account, subject to the control of the Board of Publications Trustees except that none of these funds may be diverted from the support of publications of the Society except by consent of the Council or the Society. A financial report shall be made by the Board at each annual meeting.

Article VII. *Quorum*

Ten members shall constitute a quorum for the transaction of business.

Article VIII. *By-Laws*

By-Laws shall be adopted, altered or repealed at any meeting by two-thirds vote of the ballots cast.

Article IX. *Amendments*

Section 1. Intended amendments to the Constitution shall be sent to the Secretary at least one month before the date of the meeting at which they are to be considered, and must be indorsed in writing by at least three members.

Section 2. The Secretary shall give all members due notice of proposed amendments.

Section 3. A four-fifths vote of the members present shall be required for the adoption of an amendment.

Article X. *Official Publications*

Section 1. The President of the Society shall appoint, in consultation with the Council, and subject to the approval of the Society, three members of the Society to serve as members of a Board of Publications Trustees; these members shall elect a Managing Editor for each of the official journals of the Society, and each Managing Editor, during the term of his service, shall act as an additional voting member of the Board of Publications Trustees and shall participate in all the activities of the Board except that of election of managing editors of the journals of the Society

Section 2. The members of the Board of Publications Trustees, hereinafter termed "The Board," shall each serve for a term of three years, shall be subject to reappointment, and may hold office concurrently in the Society. At the first appointment, however, one member shall be appointed for three years, one member for two years, and one member for one year, in order that in the future, appointments may be made annually in rotation. The Board shall meet at least once annually (a quorum shall consist of three members) and shall report directly to the Society.

Section 3. The special functions of The Board shall be to consider and to investigate thoroughly all matters pertaining to the fiscal and editorial policies of the journals which may come to the Society or to its Council, to the Managing Editors, and to the members of The Board. The Board shall (1) administer the finances of the journals, (2) establish the publication policies of the journals, and (3) elect a Managing Editor for each of the journals of the Society (as described in Sec. 1).

Section 4. The Managing Editor of each journal shall nominate to The Board, members of the Society acceptable to him as Associate Editors. In the event that the Society should develop an International Journal, foreign Associate Editors who are not members of the Society are eligible for nomination and appointment to the Editorial Board of said Journal. From those nominated, The Board shall elect, for each journal, Associate Editors in such number as they shall consider adequate to fulfill the duties of that Editorial Board. The Managing Editor and each Associate Editor shall serve for three years, subject to reappointment, and may hold office concurrently

in the Society. In the choice of The Boards of Editors, The Board is charged with the responsibility of obtaining editors with expert knowledge in the several fields of pharmacological research and with evidenced ability for critical and grammatical expression.

SECTION 5. The Boards of Editors of the journals shall meet on call of the respective Managing Editor, if possible just prior to or during the regular meetings of the Society, and may make recommendations to The Board concerning the improvement of the publication policies of the journals.

BY-LAWS

1. Papers to be read shall be submitted by the members of the Society to the Secretary, who, with the President, shall be empowered to arrange the program. No person may orally present more than one paper. In case of joint authorship, the name of the individual who will orally present the paper shall stand first. Papers not read shall appear on the program as read by title.

2. An abstract of a paper to be read before the Society shall be sent to the Secretary with the title. As early as possible after each meeting, the Secretary shall edit and publish the Proceedings of the Society together with abstracts in a publication authorized by the Society.

3. All applications for membership shall be accompanied by a copy of as many reprints as possible of the published work of the applicant.

4. Any member who has been an active member for thirty years, or who has retired for disability or age, may upon notification to the Treasurer be relieved from payment of dues.

THE AMERICAN SOCIETY FOR EXPERIMENTAL PATHOLOGY

Founded December 29, 1913

OFFICERS, 1952-1953

President—S. C. MADDEN, University of California School of Medicine, Los Angeles.

Vice President—D. MURRAY ANGEVINE, University of Wisconsin Medical School, Madison.

Secretary-Treasurer—R. L. HOLMAN, Louisiana State University, School of Medicine, New Orleans.

Councilors—S. C. MADDEN, D. MURRAY ANGEVINE, R. L. HOLMAN, C. C. ERICKSON (1953), HAROLD L. STEWART (1954).

Representative on the Division of Medical Sciences of the National Research Council—R. L. HOLMAN.

Representatives on the Council of the American Association for the Advancement of Science—G. JOHN BUDDINGH.

Representatives on the Eli Lilly Award Committee (jointly with the Society of American Bacteriologists)—*For nominations:* JOHN G. KIDD (1953). *For award:* DOUGLAS H. SPRUNT (1953).

Representative on the Committee for the Placement Service—DOUGLAS H. SPRUNT.

Representative on the Board of the College of American Pathologists—HARRY P. SMITH.

PAST OFFICERS

Presidents—**1914** R. M. PEARCE. **1915** THEOBALD SMITH. **1916** SIMON FLEXNER. **1917** LUDVIG HEKTOEN. **1918** H. GIDEON WELLS. **1919** W. G. MACCALLUM. **1920** W. H. PARK. **1921** F. G. NOVY. **1922** H. T. KARSNER. **1923** E. L. OPIE. **1924** A. S. WARTHIN. **1925** G. H. WHIPPLE. **1926** WADE H. BROWN. **1927** DAVID MARINE. **1928** E. B. KRUMBHAAR. **1929** W. F. PETERSEN. **1930** F. L. GATES. **1931** S. R. HAYTHORN. **1932** PEYTON ROUS. **1933** C. V. WELLER. **1934** S. B. WOLBACH. **1935** OSKAR KLOTZ. **1936** A. R. DOCHEZ. 1937 C. P. MILLER. **1938** MORTON MCCUTCHEON. **1939** E. W. GOODPASTURE. **1940** SHIELDS WARREN. **1941** J. L. BOLLMAN. **1942–1945** BALDUIN LUCKÉ. **1946** P. R. CANNON. **1947** D. H. SPRUNT. **1948** H. P. SMITH. **1949** J. G. KIDD. **1950** J. F. RINEHART. **1951** FRIEDA S. ROBSCHEIT-ROBBINS.

Vice-Presidents—**1914** J. S. ANDERSON. **1915** G. H. WHIPPLE. **1916–1917** LEO LOEB. **1918** W. G. MACCALLUM. **1919** W. H. PARK. **1920** F. G. NOVY. **1921** H. T. KARSNER. **1922** E. L. OPIE. **1933** A. S. WARTHIN. **1924** G. H. WHIPPLE. **1925** W. H. BROWN. **1926** DAVID MARINE. **1927** E. B. KRUMBHAAR. **1928** W. F. PETERSEN. **1929** F. L. GATES. **1930** S. R. HAYTHORN. **1931** PEYTON ROUS. **1932** C. V. WELLER. **1933** S. B. WOLBACH. **1934** OSKAR KLOTZ. **1935** A. R. DOCHEZ. **1936** C. P. MILLER. **1937** MORTON MCCUTCHEON. **1938** E. W. GOODPASTURE. **1939** SHIELDS WARREN. **1940** J. L. BOLLMAN. **1941** BALDUIN LUCKÉ. **1942–1945** P. R. CANNON. **1946** D. H. SPRUNT. **1947** H. P. SMITH. **1948** J. G. KIDD. **1949** J. F. RINEHART. **1950** F. S. ROBSCHEIT-ROBBINS. **1951** S. C. MADDEN.

Secretary-Treasurers—**1914** G. H. WHIPPLE. **1915–1916** PEYTON ROUS. **1917–1920** H. T. KARSNER. **1921–1923** WADE H. BROWN. **1924–1926** E. B. KRUMBHAAR. **1927–1929** C. V. WELLER. **1930–1933** C. P. MILLER. **1934–1936** SHIELDS WARREN. **1937–1939** P. R. CANNON. **1940–1945** H. P. SMITH. **1946–1948** F. S. ROBSCHEIT-ROBBINS. **1949–1950** SIDNEY C. MADDEN. **1951–** R. L. HOLMAN.

CONSTITUTION

ARTICLE I. *Name*

The Society shall be named "THE AMERICAN SOCIETY FOR EXPERIMENTAL PATHOLOGY."

ARTICLE II. *Object*

The object of this Society is to bring the productive investigators in pathology, working essentially by experimental methods, in closer affiliation with the workers in the other fields of experimental medicine.

ARTICLE III. *Time and Place of Meeting*

The Society shall meet at the same time and place as the Federation of American Societies for Experimental Biology, which comprises at present the American Physiological Society, the American Society of Biological Chemists, the American Society for Pharmacology and Experimental Therapeutics, the American Society for Experimental Pathology, the American Institute of Nutrition and the American Association of Immunologists.

ARTICLE IV. *Membership*

SECTION 1. Any American investigator who, through the use of experimental methods, has, within three years prior to his candidacy, contributed meritorious work in pathology, is eligible to membership.

SECTION 2. It shall be the policy of the Society to restrict its membership to as small numbers as is compatible with the maintenance of an active existence.

SECTION 3. There shall be two classes of members: active and honorary members.

Active members: Candidates for active membership shall be nominated at or before an annual meeting by two members of the Society. The nominators shall present to the Secretary in writing evidence of the candidate's qualifications for membership. Nominations approved by the Council shall be presented to the Society for election at the next annual meeting following nomination. For election a favorable ballot by a majority of the members present is necessary.

Honorary members: These may be elected from the active list or from the group of distinguished investigators at home or abroad who have contributed to the knowledge of pathology by experimental study. They shall be elected only by the unanimous vote of the members present at time of nomination.

SECTION 4. Active members shall pay such annual dues as are determined upon, from year to year, by the Council. Honorary members shall pay no dues, are not eligible to office, and have no vote in the business affairs of the Society, but they shall have all the privileges of the active members in the scientific proceedings.

SECTION 5. Upon failure of an active member to pay dues for two years, notice shall be given to the member by the Secretary. At the end of the third year, if dues are still unpaid, such failure constitutes forfeiture of membership.

SECTION 6. A motion for expulsion of a member must be thoroughly investigated by the Council; at this investigation the accused shall be afforded a hearing or may be represented by a member. Expulsion can be accomplished only after a unanimous vote by the Council in favor of expulsion, sustained by a four-fifths vote of the members present at the meeting.

ARTICLE V. *Officers*

The management of the Society shall be vested in a Council of five members, consisting of a President, a Vice-President, a Secretary-Treasurer, and two other members who shall be nominated by the Council and elected by the Society. Officers are elected by a majority vote and remain in office until July 1 following the Federation Meeting. Vacancies shall be filled by the Council for the unexpired term.

The President and Vice-President shall hold office for one year and are ineligible for re-election during the following year. The Secretary-Treasurer is eligible for re-election. Councilors shall hold office for two years and are elected on alternate years. At the first election one Councilor shall be elected for a short term of one year.

ARTICLE VI. *Quorum*

SECTION 1. Three constitute a quorum of the Council. The Council decides by a majority vote.

SECTION 2. A quorum of the Society for transaction of business shall be one-fourth of the total membership. In all questions brought before the Society a majority vote of those present shall decide, except as elsewhere provided for.

ARTICLE VII. *Annual Meeting*

SECTION 1. Papers shall be limited to ten minutes. However, on motion and with unanimous consent, the time may be prolonged by a period not exceeding five minutes. The Council may make provision for longer papers on suitable occasions.

SECTION 2. The subjects of papers must be confined to experimental work in pathology. In doubtful cases a liberal interpretation by the President and Secretary may prevail. The Council may invite, however, presentations dealing with any subject which it considers of considerable interest to the Society.

ARTICLE VIII. *Change of Constitution*

A motion concerning a change of the Constitution must be presented to the Council in writing by three members, and must be communicated to the members by the Secretary at least four weeks before the annual meeting. At this meeting such a change may be established when accepted by a four-fifths vote of the members present.

BY-LAWS

1. There must be in each year at least one meeting of the Council, which shall take place not later than the evening before the annual meeting.

2. At the end of the first session of the annual meeting the Secretary shall read the report of the Council. This report shall include (1) names of persons recommended for membership, (2) nominations for offices, (3) matters of general interest. The Secretary shall exhibit in a conspicuous place the names of candidates for membership recommended by the Council, together with the evidence of the qualifications of the candidates.

3. The election of officers and of new members, changes in the Constitution, etc., shall be voted upon at the end of the first session.

4. Changes in the By-Laws may be determined by a majority vote of those present.

5. In the year that a new Secretary-Treasurer is elected the incoming Council Member elected that year, or another member of the Council, shall become Assistant Secretary-Treasurer for the duration of the term of the Secretary-Treasurer.

AMERICAN INSTITUTE OF NUTRITION, INC.

Founded April 11, 1933; Incorporated November 16, 1934
Member of Federation 1940

OFFICERS, 1952–1953

President—PAUL L. DAY, University of Arkansas School of Medicine, Little Rock.

Vice-President—C. A. ELVEHJEM, University of Wisconsin, Madison.

Secretary—JAMES M. ORTEN, Wayne University College of Medicine, Detroit, Mich.

Treasurer—N. B. GUERRANT, Pennsylvania State College, State College.

Past President—C. M. MCCAY, Cornell University, Ithaca, N. Y.

Council—P. L. DAY, C. A. ELVEHJEM, J. M. ORTEN, N. B. GUERRANT, C. M. MCCAY, W. C. RUSSELL (1953), GRACE A. GOLDSMITH (1954), GLADYS A. EMERSON (1955).

Nominating Committee—J. H. ROE, *Chairman*; R. J. BLOCK, L. R. CERECEDO, W. D. SALMON, PEARL P. SWANSON.

Committee on Registry of Pathology of Nutritional Diseases—HERBERT POLLACK, *Chairman*, W. H. SEBRELL, JR., E. L. SEVRINGHAUS, O. A. BESSEY; *Consultants:* P. B. CANNON, PAUL KLEMPERER, B. S. WOLBACH; *Secretary*: C. L. PIRANI.

Representatives on Committee on Biological Nomenclature (joint with American Society of Biological Chemists)—C. A. ELVEHJEM, E. M. NELSON.

Representative to the Division of Biology and Agriculture and to the Food and Nutrition Board, National Research Council—W. C. RUSSELL (1953).

Editorial Board

Journal of Nutrition—GEORGE R. COWGILL, *Editor* (1954); WILLIAM J. DARBY (1953), D. M. HEGSTED (1953), PEARL P. SWANSON (1953), VERNON H. CHELDELIN (1954), CARL V. MOORE (1954), HAROLD H. WILLIAMS (1954), ALEX BLACK (1955), FLOYD S. DAFT (1955), HARRY G. DAY (1955) JAMES B. ALLISON (1956), CARL A. BAUMANN (1956), L. C. NORRIS (1956).

PAST OFFICERS

Presidents—**1933** L. B. MENDEL. **1934–1935** J. R. MURLIN. **1936** E. F. DU BOIS. **1937** MARY S. ROSE. **1938** E. V. MCCOLLUM. **1939** H. C. SHERMAN. **1940** T. M. CARPENTER. **1941** A. G. HOGAN. **1942** L. A. MAYNARD. **1943** H. B. LEWIS. **1944** ICIE G. MACY-HOOBLER. **1945** W. C. ROSE. **1946** A. H. SMITH. **1947** R. M. BETHKE. **1948** E. M. NELSON. **1949** C. G. KING. **1950** W. H. GRIFFITH. **1951** C. M. MCCAY.

Vice-Presidents—**1933** H. C. SHERMAN. **1934–1935** E. F. DUBOIS. **1936** MARY S. ROSE. **1937** E. V. MCCOLLUM. **1938–1939** T. M. CARPENTER. **1940** A. G. HOGAN. **1941** L. A. MAYNARD. **1942** H. B. LEWIS. **1943** ICIE G. MACY-HOOBLER. **1944** W. C. ROSE. **1945** A. H. SMITH. **1946** R. M. BETHKE. **1947** E. M. NELSON. **1948** C. G. KING. **1949** W. H. GRIFFITH. **1950** C. M. MCCAY. **1951** P. L. DAY.

Secretaries—**1933** J. R. MURLIN. **1934–1937** ICIE G. MACY. **1938–1940** L. A. MAYNARD. **1941–1944** A. H. SMITH. **1945–1947** H. E. CARTER. **1948–1950** J. H. ROE. **1951–** J. M. ORTEN.

Treasurers—**1933** J. R. MURLIN. **1934** W. M. BOOTHBY. **1935–1939** G. R. COWGILL. **1940–1943** W. H. SEBRELL, JR. **1944–1946** E. M. NELSON. **1947–1949** N. R. ELLIS. **1950–** N. B. GUERRANT.

CONSTITUTION

1. The name of the proposed society is the "AMERICAN INSTITUTE OF NUTRITION."

2. The purposes of the society are to further the extension of the knowledge of nutrition and to facilitate personal contact between investigators in nutrition and closely related fields of interest.

3. The management of the American Institute of Nutrition shall be vested in a council consisting of the President, Vice-President, Secretary, Treasurer and three additional members.

BY-LAWS

ARTICLE I. *Membership*

SECTION 1. *Eligibility for membership:* Members. Qualified investigators who have independently conducted and published meritorious original investigations in some phase of the chemistry or physiology of nutrition and who have shown a professional interest in nutrition for at least 5 years shall be eligible for membership in the Society.

SECTION 2. *Nomination:* Nominations for membership shall be made and seconded by members of the Society on blanks furnished by the Secretary. Nominations shall be submitted to the Council who shall determine eligibility and make recommendation to the Society at a regular meeting.

SECTION 3. *Election to membership:* A. A nominee for membership may be voted for by ballot at any meeting of the Society after the Council has reported its findings on his eligibility. B. A majority of the ballots cast shall elect.

SECTION 4. *Forfeiture:* If a majority of the

Council after due notice to the member in question and opportunity for a hearing, shall decide that the interests of the Society require the expulsion of a member, the Secretary shall send a notice of this decision to each member at least two weeks before the next annual meeting. At this meeting the Secretary shall, on behalf of the Council, propose the expulsion; and if two-thirds of the members present vote for it, the member shall be expelled, his assessment for the current year shall be returned to him, and he shall cease to be a member of the Society.

ARTICLE II. *Meetings and Quorum*

SECTION 1. *Annual:* The annual meeting of the Society shall be held on the date fixed by the Certificate of Incorporation.

SECTION 2. *Special:* A special meeting may be called at any time by the President, or in case of his absence or disability, by the Vice-President, and must be called at the request in writing of a majority of the Council or fifty members of the Society. Notice specifying the purpose of such meeting shall be mailed to each member at least ten days previous thereto. The Council shall select the places at which meetings shall be held.

SECTION 3. *Quorum:* Thirty members shall constitute a quorum at all meetings of the Society, but in the absence of a quorum any number shall shall be sufficient to adjourn to a fixed date.

ARTICLE III. *Officials*

SECTION 1. *Officers:* The officers shall be a President, and a Vice-President, who shall be elected annually, and a Secretary and Treasurer, each of whom shall be elected to serve for a term of three years. These officers shall be elected by the members of the Society. Their terms of office shall commence on July 1 of the year in which they are elected.

SECTION 2. *Council:* The officers so selected and three additional members, one of whom shall be elected at each annual meeting to serve a term of three years, shall constitute a Board of Trustees and shall be known as "The Council." (When this provision is first put into effect one member shall be elected for 1 year, one for 2 years and the third for 3 years.)

SECTION 3. *Duties of Officers:* The powers and duties of the officers elected by the Society shall be such as usually devolve upon their respective positions.

ARTICLE IV. *The Council*

SECTION 1. *Powers:* The general management of the Society during the intervals between meetings shall be vested in the Council, which shall regularly perform the ordinary duties of an executive committee and possess all the powers conferred upon the Board of Trustees of an educational institution chartered by the Education Department of the University of the State of New York. A permanent charter was issued to the American Institute of Nutrition under date of November 16, 1934.

SECTION 2. *Reports:* The Council shall report to the Society its findings on the eligibility of candidates for membership, and on all charges of a violation of these By-Laws.

ARTICLE V. *Nominating Committee*

SECTION 1. *Membership:* A. The Nominating Committee shall consist of five members appointed for the coming year by the retiring President. Members who have served on the Nominating Committee for two consecutive years shall be ineligible for reappointment until after a lapse of one year. B. The President shall designate one member to be Chairman of the Nominating Committee.

SECTION 2. *Nomination of Officials:* A. The Nominating Committee shall make at least one nomination for each of the four offices, for each of the additional positions on the Council to be filled by vote of the members and for each of the positions on the Editorial Board to be vacated at the time of the annual meeting. Any member of the Institute may submit nominations to the Nominating Committee for its consideration along with those nominations made by the members of the Nominating Committee. B. The nominations by the Nominating Committee shall be transmitted to the Secretary at least six weeks before the annual meeting at which they are to be considered. C. The Secretary shall send to every member, at least two weeks before the annual meeting, a printed ballot containing the list of nominees and space for such additional names as the member wishes to propose, and at the same time shall notify the members that they may vote by mail, returning to the Secretary the marked ballot in the envelope provided, at such a time and place as the Secretary may designate, or the ballot may be delivered to the Secretary at the beginning of the business session at which the elections are to take place.

SECTION 3. *Election of officials:* A. At the beginning of the business session the Secretary shall present to the tellers, appointed by the President, the ballots submitted by the members and the ballots shall be counted forthwith. B. A majority of votes cast shall be necessary to elect an official.

SECTION 4. *Filling of Vacancies:* A. The Nominating Committee shall fill all vacancies in elective positions except such as may occur at a meeting of the Society. B. The President of the Society shall fill all vacancies in appointive positions

ARTICLE VI. *Financial*

SECTION 1. *Dues:* The dues shall be the annual cost of subscription to The Journal of Nutrition for members plus an annual assessment which shall be determined by majority vote at the annual meetings, upon recommendation of the Council, and shall be due within a month after the annual meeting. A member on attaining the age of 65 may elect to be relieved from all financial obligations to the Institute including subscription to The Journal of Nutrition.

SECTION 2. *Expenditures:* No expenditures from the general funds of the Society except those required in the performance of the ordinary official duties shall be made except by vote of the Society or the Council.

SECTION 3. *Penalty for non-payment of dues:* A. Members in arrears for dues for two consecutive years shall forfeit their membership. B. Delinquent members may be reinstated by the Council provided all indebtedness to the Society is liquidated.

ARTICLE VII. *The Journal of Nutrition*

SECTION 1. The American Institute of Nutrition designates *The Journal of Nutrition* as its official organ of publication.

SECTION 2. In accordance with the expressed wish of the Wistar Institute of Anatomy and Biology, owner and publisher of *The Journal of Nutrition*, the American Institute of Nutrition shall nominate members of the Editorial Board for its official organ. A. The editorial management of *The Journal of Nutrition* shall be vested in an Editorial Board consisting of an Editor and twelve Board Members. B. The Editor shall be chosen by the Editorial Board to serve a term of five years beginning July 1 of the year in which he is chosen, and shall be eligible for reëlection. The Editor shall have the power to designate one of the Board Members to serve as his assistant, and such an appointee shall be called Associate Editor. C. Three members of the Institute shall be nominated by the Nominating Committee for membership on the Editorial Board each year to serve a term of four years, replacing three retiring members and taking office May 1 of the year in which they are elected. In the event of a vacancy in the membership of the Editorial Board occurring through death or other reason, the Nominating Committee, for each such vacancy to be filled shall make an additional nomination. In this event the nominees elected who receive the greatest number of votes shall serve the longest term of vacancies to be filled. D. Retiring members of the Editorial Board shall not be eligible for renomination until one year after their retirement.

ARTICLE VIII. *Papers on Scientific Subjects*

SECTION 1. The Secretary shall be authorized to arrange programs for the scientific sessions at the annual meetings.

ARTICLE IX. *Changes in Constitution and By-Laws*

SECTION 1. Proposed changes in the Constitution and By-Laws must be sent in writing to the Secretary at least one month before the date of the meeting at which they are to be considered, and must be signed by at least three members. The Secretary shall send a printed copy of any proposed change to each member at least two weeks before the next meeting and shall notify all members that they may vote by proxy.

SECTION 2. If at this meeting two-thirds of the votes cast shall favor the proposed change, it shall be made.

THE AMERICAN ASSOCIATION OF IMMUNOLOGISTS

Founded June 19, 1913; Member of Federation 1942

OFFICERS, 1952–1953

President—JOHN F. ENDERS, Harvard Medical School, Boston, Mass.

Honorary President—ARTHUR F. COCA, Oradell, N. J.

Vice-President—THOMAS P. MAGILL, State University of New York Medical Center, Brooklyn.

Secretary-Treasurer—JOHN Y. SUGG, Cornell University Medical College, New York City.

Council—JOHN F. ENDERS, THOMAS P. MAGILL, JOHN Y. SUGG, THOMAS FRANCIS, JR. (1954), JULES FREUND (1955), A. M. PAPPENHEIMER, JR. (1953), M. W. CHASE (1956), GEOFFREY EDSALL, ex officio.

Editorial Board

Journal of Immunology—GEOFFREY EDSALL, *Editor*, JACQUES J. BRONFENBRENNER, JOHN F. ENDERS, THOMAS FRANCIS, JR., SANFORD B. HOOKER, KARL F. MEYER.

PAST OFFICERS

Presidents—**1913** GERALD B. WEBB. **1915** JAMES W. JOBLING. **1916** RICHARD WEIL. **1917** JOHN A. KOLMER. **1918** WILLIAM H. PARK. **1919** HANS ZINSSER. **1920** RUFUS I. COLE. **1921** FREDERICK P. GAY. **1922** GEORGE W. MCCOY. **1923** H. GIDEON WELLS. **1924** FREDERICK G. NOVY. **1925** WILFRED H. MANWARING. **1926** LUDVIG HEKTOEN. **1927** KARL LANDSTEINER. **1928** EUGENE L. OPIE. **1929** OSWALD T. AVERY. **1930** STANHOPE BAYNE-JONES. **1931** ALPHONSE R. DOCHEZ. **1932** AUGUSTUS B. WADSWORTH. **1933** THOMAS M. RIVERS. **1934** FRANCIS G. BLAKE. **1935** WARFIELD T. LONGCOPE. **1936** SANFORD B. HOOKER. **1937** CARL TENBROECK. **1938** DONALD T. FRASER. **1939** GEORGE P. BERRY. **1940** PAUL R. CANNON. **1941** KARL F. MEYER. **1942–1945** JACQUES J. BRONFENBRENNER. **1945–1947** MICHAEL HEIDELBERGER. **1947** LLOYD D. FELTON. **1948** MICHAEL HEIDELBERGER. **1949** THOMAS FRANCIS, JR. **1950** GEOFFREY EDSALL. **1951** COLIN M. MACLEOD.

Vice-Presidents—**1913–1915** GEORGE W. ROSS. **1915** GEORGE P. SANBORN. **1916** JOHN A. KOLMER. **1947** MICHAEL HEIDELBERGER. **1948** LLOYD D. FELTON. **1949** MICHAEL HEIDELBERGER. **1950** COLIN M. MACLEOD. **1951** JOHN F. ENDERS.

Secretary—**1913–1918** MARTIN J. SYNOTT. **1946–1947** ARTHUR F. COCA.

Treasurer—**1913–1918** WILLARD J. STONE. **1946–1947** A. J. WEIL.

Secretary-Treasurer—**1918–1945** ARTHUR F. COCA. **1948–1950** JULES FREUND. **1951–** JOHN Y. SUGG.

CONSTITUTION

(*As revised, 1949*)

ARTICLE I. *Name*

This association shall be called THE AMERICAN ASSOCIATION OF IMMUNOLOGISTS.

ARTICLE II. *Object*

The purpose of the Association shall be to advance knowledge of immunology and related disciplines, and to facilitate interchange of ideas and information among investigators in the various fields.

ARTICLE III. *Members*

SECTION 1. The Association shall consist of active members, members emeriti and honorary members.

SECTION 2. Any qualified person engaged in the study of problems related to the purpose of the Association may apply for active membership. Candidates for active membership shall be nominated by two members of the Association on blanks furnished by the Secretary. Applications must be accompanied by letters of recommendation of the sponsors, a curriculum vitae, and a list of reprints of publications. The Council shall determine eligibility and post a list of candidates at the annual meeting. The membership shall elect new members by majority vote.

SECTION 3. Failure to pay dues for three successive years shall annul membership. The Council may reinstate a member if an acceptable explanation is submitted and all indebtedness to the Association is liquidated. Payment of such indebtedness may be waived by unanimous vote of the Council if circumstances justify such action.

SECTION 4. If a two-thirds majority of the Council decides that the best interests of the Association require the expulsion of a member, the Secretary shall notify the affected member in writing of the charges. The Council shall allow a reasonable time for the presentation of his defense before acting. Upon recommendation of a two-thirds majority of the Council, the Secretary shall send a notice of the decision to each active member at least six weeks before the next annual meeting. At this meeting the Secretary shall, on behalf of the Council, propose the expulsion; and on a two-thirds vote of the members present, the member shall be expelled, his assessment for the current year shall be returned, and he shall cease to be a member of the Association.

SECTION 5. An active member of the Association for twenty years upon retirement because of age or disability, may elect to accept the status of member emeritus. As such he shall retain voting privileges but shall be relieved of all financial obligations to the Association and shall not receive the Journal without payment.

SECTION 6. The Council may nominate for honorary membership persons of extraordinary achievement in the field of endeavor of this Association. Election to honorary membership shall follow the same procedure as that for election for office in the Association, and the Secretary, on order of the Council, shall place nominations for honorary membership on the annual ballot.

ARTICLE IV. *Officers*

SECTION 1. The Association shall be governed by a Council, which shall consist of the Officers of the Association and five Councilors, one of whom shall be the Editor-in-Chief of the Journal of Immunology.

SECTION 2. The Officers of the Association shall be a President, a Vice President, a Secretary, and a Treasurer. The duties of the two latter may be performed by one or two individuals as determined by vote of the Association. (See By-Law # 7.)

SECTION 3. The President, the Vice President, the Secretary, and the Treasurer shall be elected at the regular annual meeting of the Association to serve for one year. Only the Secretary and the Treasurer are eligible to serve for successive terms in their respective offices. The term of office shall begin the day after the end of the annual meeting.

SECTION 4. One Councilor shall be elected each year to serve for a term of four years. He may however serve in any other elective office immediately after expiration of his term as Councilor.

SECTION 5. The President shall appoint a Nominating Committee of three (or more) members not currently serving on the Council of the Association and shall designate the Chairman. The Committee shall submit nominations for the offices of President, Vice President, Secretary, Treasurer, and Councilor. They may nominate the member currently serving as Vice President for the office of President, and the Councilor who is serving his fourth year for the office of Vice President. They shall submit the names of three members of the Association as candidates for the office of Councilor for a four-year term. The Nominating Committee shall confer at least three months before the annual meeting and shall transmit its nominations, over the signatures of the majority of the Committee, to the Secretary at least two months before the annual meeting. Other names may be added to the ballot upon petition of at least twenty-five members of the Association to the Secretary at least two months before the annual meeting. The Secretary shall send to each member of the Association, at least six weeks before the annual meeting, a ballot containing the list of all such nominees.

SECTION 6. The members of the Association shall vote on the nominations by secret ballot by mail. All ballots must be in the hands of the Secretary one week before the annual meeting. At the time of the annual meeting the Secretary shall present all the valid sealed ballots received by him to the tellers appointed by the President. A plurality of votes shall be sufficient for election.

SECTION 7. The Vice President shall substitute for the President when necessary. If both the President and Vice President are unable to serve, the senior Councilor shall temporarily assume the duties of President. Should a vacancy occur in the office of Secretary or Treasurer, or Councilor, the Council by a majority vote shall appoint a member to fill the unexpired term until the following election. In the event of a vacancy in the Council, the members shall in the following election choose two Councilors from among six nominees whose names shall be selected by the Nominating Committee and included on the ballot as above. Moreover, in this event the terms of the four Councilors shall be adjusted so as to provide an orderly progression within the general sense of the Constitution.

ARTICLE V. *Meetings*

SECTION 1. A regular meeting of the Association shall be held annually at such time and place as the Council shall determine. Regular meetings shall be open to all members of the Association. The members present at the annual meeting of the Association shall constitute a quorum.

SECTION 2. A meeting of the Council shall be held prior to the annual business meeting of the Association. A quorum of the Council for this meeting shall be five.

SECTION 3. In case of equal division of votes, the President shall cast the decisive ballot.

SECTION 4. Minutes of the annual meeting of the Council and of the annual business meeting of the Association shall be published in the form of a news-letter and be distributed only to members of the Association. The annual report of the Treasurer shall be included in this news-letter.

ARTICLE VI. *Business*

SECTION 1. The fiscal year of the Association shall begin March first.

SECTION 2. Annual dues, upon recommendation of the Council, shall be determined by a majority vote at the annual meeting of the Association.

ARTICLE VII. *Publication*

SECTION 1. The Journal of Immunology, which is the property and official organ of this Associa-

tion, shall be administered for the Association by an Editorial Board.

SECTION 2. An Editor-in-Chief shall be elected from the membership by a majority vote of the Council to serve for four years. His term of office shall be subject to renewal. He shall appoint with the consent of the Council an Editorial Board of four to six members to serve for four years. The Editor-in-Chief and the members of the Editorial Board shall be responsible for the editorial conduct of the Journal.

SECTION 3. The Editor-in-Chief shall, with the consent of the Council, appoint from the active members Associate Editors as needed. These Associate Editors are to be chosen because of their ability in specialized fields.

SECTION 4. The Editor-in-Chief shall make a report of his stewardship of the Journal at the annual meeting and in this report shall summarize the editorial situation and all matters dealing with finances. He shall submit to the Council statements relating to the number of manuscripts received, rejected, accepted, and published during the year; changes in editorial personnel of editors; a complete summary of circulation and of finances and of any other information which the Editorial Board may feel to be pertinent or which may be required by the Council.

ARTICLE VIII. *Amendments*

SECTION 1. Proposed changes in the Constitution shall be submitted by at least five members in writing through the Secretary to the President. The President shall then appoint a committee of at least three members which shall communicate its recommendations to the President for consideration by the Council. The Council shall then advise the Secretary to submit the recommendations of the committee to the membership of the Association for approval with the annual ballot. A change in the Constitution shall require a two-thirds majority of the votes cast by the members at the annual meeting and shall require confirmation by a majority in a mail vote in which at least 50% shall have participated.

SECTION 2. As an alternative procedure a proposed change in the Constitution may be submitted directly to the Council by petition of one-tenth of the total active membership. Under this circumstance the Council is required to arrange for a vote by the members as heretofore described.

SECTION 3. Proposed changes in By-Laws may be adopted by two-thirds vote of members present at the annual meeting.

BY-LAWS

1. The Past Presidents shall have the right of attending, without vote, the meetings of the Council.

2. The President may appoint a Past President or a Past Councilor as pro tempore Councilor at any stated meeting of the Council at which a quorum is not present.

3. The Council may transact and vote by mail on such business as cannot be conveniently transacted at meetings.

4. The Secretary shall arrange the program for the scientific meetings, with the advice of the other officers of the Association. Any member in good standing shall have the right to submit a paper. The privilege of presentation may be extended to non-members upon recommendation of active members. Papers intended for presentation at the meetings shall conform to the standards of the Journal of Immunology. In case of doubt, the Secretary shall have the right to submit papers to the scrutiny of three or more members of the Editorial Board of the Journal of Immunology whose decision shall be final.

5. Each member who signifies his intention of reading a paper at any session may specify the length of time which its presentation shall require. In the absence of any specification of time required not more than ten minutes shall be allotted for the reading of any one paper. The time allotted shall be printed on the official program, and the presiding officer shall have no authority to extend it unless a majority of the members present signify their wish to the contrary.

6. If by force of circumstances it should be impossible to hold the annual meeting, the election of Officers and Council may be carried out entirely by mail.

7. The offices of Secretary and Treasurer are combined and shall be held by one person.

8. Official or invited addresses presented at the annual meeting shall be given immediate priority in publication, unless the Editor-in-Chief shall be otherwise instructed by majority vote of the Council.

9. Dues are payable on or before January 1st and subscriptions to the Journal will be lapsed if not paid by this date.

10. If the Editor-in-Chief is unable to attend the stated meeting of the Council, he may designate an alternate from the membership of the Editorial Board.

ALPHABETICAL LIST OF MEMBERS OF THE SIX SOCIETIES

(1) The American Physiological Society
(2) American Society of Biological Chemists
(3) The American Society for Pharmacology and Experimental Therapeutics
(4) The American Society for Experimental Pathology
(5) The American Institute of Nutrition
(6) The American Association of Immunologists

Number and year in parentheses following each name indicate Society affiliation and year of election
H signifies honorary member; R signifies retired status

Abbott, Lynn D. F., Jr. Ph.D. Med. College of Virginia, Richmond 19. *Assoc. Prof. of Biochemistry.* (**2,** 1948)

Abood, Leo G., Ph.D. Univ. of Illinois, College of Medicine, Neuropsychiatric Inst., Chicago. (**1,** 1951)

Abramson, David I., M.D. Univ. of Illinois, Dept. of Medicine, Chicago 12. *Asst. Clin. Prof.; Attending Physician, Hines Veterans Hospital.* (**1,** 1937)

Abramson, Harold A., M.D. Mt. Sinai Hospital, New York City. *Chief, Allergy Clinic; Asst. Prof. of Physiology, Columbia Univ. College of Physicians and Surgeons.* (**1,** 1930; **2,** 1934)

Abreu, Benedict E., Ph.D., M.D. Pitman-Moore Co., Indianapolis, Ind. *Assoc. Research Dir.* (**3,** 1941)

Acheson, George H., M.D. Univ. of Cincinnati College of Medicine, Cincinnati, Ohio. *Prof. of Pharmacology.* (**1,** 1942; **3,** 1945)

Ackermann, W. Wilbur, Ph.D. 410 N. State St., Ann Arbor, Mich. *Asst. Prof. of Epidemiology, Univ. of Mich.* (**2,** 1952)

Adams, Georgian, M.A., D.Sc. U.S. Dept. of Agriculture, Washington 25, D. C. *Sr. Exper. Station Admin.* (**5,** 1946)

Adams, John M., M.D., Ph.D. Univ. of California, 405 Hilgard Ave., Los Angeles 24. *Prof. of Pediatrics.* (**4,** 1947)

Adams, Mark, Ph.D. New York Univ. College of Medicine, 477 First Ave., New York City 16. *Assoc. Prof. of Microbiology.* (**6,** 1951)

Adams, Mildred, Ph.D. Agricultural Research Center, Bureau of Human Nutrition and Home Economics, Beltsville, Md. *Biochemist, Food and Nutrition.* (**2,** 1934)

Adams, R. Charles, C.M., M.D. Mayo Clinic, Rochester, Minn. *Assoc. Prof. of Anesthesiology, Mayo Foundation; Consultant, Mayo Clinic, Section on Anesthesia.* (**3,** 1942)

Adams, W. Lloyd, M.D., Ph.D. 1300 First Natl. Bank Bldg., Lexington 6, Ky. *Practicing Ophthalmologist.* (**3,** 1942)

Adams, Wright R., M.D. Univ. of Chicago, Dept. of Medicine, Chicago 37, Ill. *Assoc. Prof. of Medicine.* (**1,** 1946)

Addison, William H., M.D. Univ. of Pennsylvania, Philadelphia. *Prof. Emeritus of Histology and Embryology.* (**1R,** 1928)

Adler, Harry F., Ph.D., M.D. 274 W. Ware Blvd., San Antonio, Tex. *Dir. Med. Sciences Div., USAF School of Aviation Medicine.* (**1,** 1943)

Adolph, Edward Frederick, Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Prof. of Physiology.* (**1,** 1921)

Adolph, William H., Ph.D. American Univ., School of Medicine, Beirut, Lebanon. *Prof. of Nutrition.* (**2,** 1946; **5,** 1934)

Adrian, E. D. Cambridge Univ., Dept. of Physiology, Cambridge, England. (**1H,** 1946)

Ahlquist, Raymond P., Ph.D. Med. College of Georgia, Augusta. *Prof. and Chairman of Dept. of Pharmacology.* (**1,** 1952; **3,** 1945)

Ainslie, John D., M.D. U. S. Public Health Service Hospital, Fort Worth 1, Texas. (**6,** 1951)

Ajazzi-Mancini, Mario, M.D. Univ. of Firenze, Dept. of Pharmacology, Viale G. B. Morgagni 65, Firenze, Italy. *Dir. of Pharmacology.* (**3,** 1951)

Albanese, Anthony A., Ph.D. St. Luke's Convalescent Hospital. Nutritional Research Lab., King St., Greenwich, Conn. *Chief of Nutritional Research.* (**2,** 1944)

Albaum, Harry G., Ph.D. Brooklyn College, Bedford Ave. and Ave. H, Brooklyn, N. Y. *Assoc. Prof. of Biology.* (**2,** 1947)

Albert, A., Ph.D., M.D. Mayo Foundation, Rochester, Minn. *Research Assoc.* (**1,** 1947)

Albritton, Errett C., M.D. George Washington Univ. Med. School, 1339 H St., N.W., Washington, D. C. *Fry Prof. of Physiology.* (**1,** 1933)

Alden, Roland H., Ph.D. Univ. of Tennessee, College of Medicine, Memphis 3. *Prof. and Head, Dept. of Microscopic Anatomy.* (**1,** 1949)

Alderton, Gordon, M.S. U. S. Dept of Agriculture, Western Regional Research Lab., Albany 6, Calif. *Chemist.* (**2,** 1952)

Alexander, Benjamin, M.D. Beth Israel Hospital, 330 Brookline Ave., Boston, Mass. *Asst. Prof. of Medicine, Harvard Med. School.* (**2,** 1951)

Alexander, Robert S., Ph.D. Western Reserve Univ. School of Medicine, 2109 Adelbert Rd., Cleveland, Ohio. *Assoc. Prof. of Physiology.* (**1,** 1946)

Alfin-Slater, Roslyn B., Ph.D. Univ. of Southern California, School of Medicine, Dept. of Biochemistry and Nutrition, Los Angeles 7. *Research Assoc.* (**2,** 1952)

Alfredson, Bernard V., D.V.M., M.S. Michigan State College, Dept. of Physiology and Pharmacology, East Lansing. *Prof. and Head of Dept.* (**1,** 1951)

Algire, Glenn H., M.D. Natl. Cancer Inst., Bethesda, Md. *Sr. Surgeon, USPHS.* (**4,** 1945)

Allan, Frank N., M.D. Lahey Clinic, 605 Commonwealth Ave., Boston, Mass. *Exec. Dir. of the Med. Dept.* (**4,** 1930)

Allen, Charles Robert, Ph.D., M.D. Univ. of Texas School of Medicine, Galveston. *Assoc. Prof. of Anesthesiology.* (**1,** 1943)

Allen, Frank W., Ph.D. Univ. of California, 1557 Life Science Building, Berkeley. *Assoc. Prof. of Biochemistry.* (**2,** 1947)

Allen, Frederick M., M.D. 1031 Fifth Ave., New York City. *Prof. of Medicine, Polyclinic Med. School and Hospital.* (**1R,** 1924; **4,** prior to 1920)

Allen, J. Garrott, M.D. Univ. of Chicago, Univ. Clinics, Chicago, Ill. *Instr. in Surgery.* (**1,** 1943)

Allen, Lane, Ph.D., M.D. Med. College of Georgia, Univ. Place, Augusta. *Assoc. Prof. of Anatomy.* (**1,** 1939)

Allen, Shannon C., Ph.D. Galesburg State Research Hospital, Galesburg, Ill. (**1,** 1945)

Allen, Thomas H., Ph.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Physiology, 630 W. 168th St., New York City 32. *Asst. Prof.* (**1,** 1947)

Allen, Willard E., M.D. Washington Univ. School of Medicine, 630 S. Kingshighway, St. Louis, Mo. *Prof. of Obstetrics and Gynecology.* (**1,** 1934)

Alles, Gordon A., Ph.D. 770 S. Arroyo Parkway, Pasadena, Calif. *Lecturer in Pharmacology, Univ. of California Med. School, and Research Assoc. in Biology, California Inst. of Technology.* (**1,** 1932; **3,** 1941)

Alling, Eric L., M.D. Univ. of Rochester School of Medicine and Dentistry, Rochester 20, N. Y. *Assoc. in Radiology.* (**4,** 1947)

Allison, James B., Ph.D. Rutgers Univ., New Brunswick, N. J. *Prof. of Physiology and Biochemistry; Dir. of Bureau of Biological Research.* (**2,** 1946; **5,** 1949)

Almquist, Herman J., Ph.D. The Grange Co., Modesto, Calif. *Dir. of Research and Vice-Pres.* (**2,** 1937; **5,** 1937)

Altland, Paul D., Ph.D. Natl. Insts. of Health, Bethesda, Md. *Physiologist.* (**1,** 1950)

Altschul, Aaron M., Ph.D. Southern Regional Research Lab., USDA, 2100 R. E. Lee Blvd., New Orleans, 19, La. *Head, Oilseed Div.* (**2,** 1949)

Alvarez, Walter C., M.D. 700 N. Michigan Ave., Chicago 11, Ill. *Prof. of Medicine, Mayo Foundation.* (**1R,** 1917; **3R,** 1921)

Alving, Alf Sven, M.D. Billings Hospital, Univ. of Chicago, 950 E. 59th St., Chicago, Ill. *Assoc. Prof. of Medicine.* (**1,** 1939)

Amberg, Samuel, M.D. Mayo Clinic, Rochester, Minn. *Assoc. Prof. Emeritus of Pediatrics, Mayo Foundation.* (**1R,** 1903; **2,** 1906; **3R,** 1909)

Amberson, William R., Ph.D. Univ. of Maryland School of Medicine, Baltimore. *Prof. of Physiology.* (**1,** 1924)

Ambrose, Anthony M., Ph.D. Western Regional Research Lab., U.S.D.A. Bureau of Agricultural and Industrial Chemistry, 800 Buchanan St., Albany, Calif. *Sr. Pharmacologist.* (**3,** 1937)

Ames, Stanley R., Ph.D. Distillation Products Ind., Div. of Eastman Kodak Co., Rochester 3, N. Y. *Sr. Research Chemist.* (**2,** 1948)

Amoss, Harold L., M.D., D.P.H., Sc.D. 68 Deerfield Drive, Greenwich, Conn. (**4,** 1922; **6,** 1917)

Anchel, Marjorie, Ph.D. New York Botanical Garden, Bronx Park, New York City 58 (Fordham P.O.). *Research Assoc.* (**2,** 1951)

Andersch, Marie A., Ph.D. Univ. Hospital, Baltimore, Md. *Biochemist, Univ. Hospital; Instr. in Medicine, Univ. of Maryland.* (**2,** 1940)

Andersen, Dorothy H., M.D. Babies Hospital, Broadway and 167th St., New York City. *Asst. Prof. of Pathology, Columbia Univ.* (**4,** 1935)

Anderson, Carl E., Ph.D. Univ. of North Carolina, School of Medicine, Dept. of Biological Chemistry and Nutrition, Chapel Hill. *Assoc. Prof. of Biochemistry.* (**2,** 1950)

Anderson, Evelyn, M.D. Ph.D. Natl. Insts. of Health, Bethesda 14, Md. (**1,** 1934)

Anderson, Hamilton H., M.S., M.D. Univ. of California Med. Center, Div. of Pharmacology & Experimental Therapeutics, San Francisco 22. *Chairman.* (**3,** 1931)

Anderson, Joseph T., Ph.D. Univ. of Minnesota, Lab. of Physiological Hygiene, Minneapolis 14. *Asst. Prof.* (**5,** 1952)

Anderson, Oscar Daniel, Ph.D. Adelphi College, Dept. of Psychology, Garden City, N. Y. (**1,** 1939)

Anderson, Rubert S., Ph.D. Univ. of South Dakota School of Medicine, Vermillion. *Prof. of Physiology.* (**1,** 1948)

Anderson, Rudolph J., Ph.D. Sterling Lab., Yale Univ., New Haven, Conn. *Prof. of Chemistry* (**2,** 1915)

Anderson, W. A. D., M.A., M.D. Marquette Univ. School of Medicine, Milwaukee, Wis. *Prof. of Pathology.* (**4.** 1941)

Anderson, William E., M.A. Eastern State Farm-

ers' Exchange, Westbrook Farm, Rockville, Conn. *Biochemist.* (**2R,** 1931; **5,** 1933)

Andervont, H. B., Sc.D. Natl. Cancer Inst., Bethesda, Md. *Chief, Biology Sec.; Biologist.* (**4,** 1939)

Andrews, James C., Ph.D. Univ. of North Carolina, Chapel Hill. *Prof. of Biological Chemistry and Nutrition.* (**2,** 1925)

Andrus, E. Cowles, M.D. Johns Hopkins Hospital, Baltimore 5, Md. *Asst. Visiting Physician; Assoc. Prof. of Medicine, Johns Hopkins Univ.* (**1,** 1925)

Anfinsen, Christian B., Jr., Ph.D. Natl. Heart Inst., Bethesda 14, Md. *Chief, Section of Cellular Physiology.* (**2,** 1946)

Angerer, Clifford, Ph.D. Ohio State Univ., Columbus. *Assoc. Prof. of Physiology.* (**1,** 1943)

Angevine, D. Murray, M.D. Univ. of Wisconsin Med. School, Madison. *Prof. of Pathology.* (**4,** 1940)

Anker, H. S., M.D., Ph.D. Univ. of Chicago, Dept. of Biochemistry, 947 E. 58th St., Chicago 37, Ill. *Research Assoc. and Asst. Prof.* (**2,** 1949)

Annegers, John H., Ph.D., M.D. Northwestern Univ. Med. School, Dept. of Physiology, 313 E. Chicago Ave., Chicago 11, Ill. *Asst. Prof. of Physiology.* (**1,** 1949)

Ansbacher, Stefan, D.Sc. Jocinah Farms, R.R. 1., Marion, Ind. *Scientific and Med. Consultant.* (**2,** 1939)

Anslow, W. Parker, Jr., Ph.D. Univ. of Virginia, Dept. of Medicine, Physiological Labs., Charlottesville. *Prof. of Physiology and Chairman of School of Physiology.* (**2,** 1948)

Anson, Mortimer L., Ph.D. Lever Bros. Research Center, Edgewater, N. J. *Asst. Research Dir.* (**2,** 1937)

Apperly, Frank L., D.Sc., M.D. Med. College of Virginia, Richmond. *Prof. of Pathology.* (**4,** 1936)

Archibald, Reginald M., Ph.D., M.D. Rockefeller Inst. Hospital, 66th St. and York Ave., New York City 21. *Member, Rockefeller Inst. for Med. Research.* (**2,** 1947)

Arkin, Aaron, M.D., Ph.D. Suite 2006, 25 E. Washington St., Chicago, Ill. *Rush Prof. of Medicine, Univ. of Illinois; Prof. and Chairman of Dept. of Medicine, Cook County Grad. School.* (**1,** 1914; **3,** 1919)

Armstrong, Harry G., M.D. Headquarters U.S. Air Force, Washington 25, D.C. *Surgeon General.* (**1,** 1948)

Armstrong, Marvin D., Ph.D. Univ. of Utah School of Medicine, Salt Lake City 1. *Assoc. Research Prof., Dept. of Biochemistry.* (**2,** 1951)

Armstrong, Philip B., M.D. Syracuse Univ. College of Medicine, Syracuse 10, N.Y. *Prof. of Anatomy.* (**1,** 1945)

Armstrong, W. D., M.D., Ph.D. Univ. of Minnesota, 17 Med. Sciences Bldg., Minneapolis. *Prof. and Head of Physiological Chemistry.* (**2,** 1938)

Arnold, Aaron, Ph.D. Sterling-Winthrop Research Inst., Rensselaer, N. Y. *Head of Nutritional Research Lab.* (**5,** 1947)

Arnold, Lloyd, A.M., M.D. 1538 E. 57th St., Chicago, Ill. (**4,** 1930; **6,** 1925)

Arnow, L. Earle, Ph.D., M.D. Sharp & Dohme, Med. Research Div., West Point, Pa. *Dir. of Research.* (**2,** 1940)

Aronson, Joseph D., M.D. 416 Oak Lane, Wayne, Pa. (**4,** 1927; **6,** 1925)

Artom, Camillo, M.D., Ph.D. Wake Forest College, Bowman Gray School of Medicine, Winston-Salem, N. C. *Prof. of Biochemistry.* (**2,** 1944)

Ascham, Leah, Ph.D. Kansas State College, Manhattan. *Prof. in School of Home Economics.* (**5,** 1935)

Asenjo, Conrado F., Ph.D. Univ. of Puerto Rico, School of Tropical Medicine, San Juan 22. *Prof. and Head, Dept. of Biochemistry and Nutrition.* (**2,** 1944; **5,** 1951)

Ashby, Winifred M., Ph.D. 305 10th St., N.E. Washington, D. C. *Sr. Scientist, Federal Security Agency.* (**6,** 1923)

Ashman, Richard, Ph.D. 5902 Marshall Foch St., New Orleans, La. *Prof. of Physiology, Louisiana State Univ.* (**1,** 1925)

Astwood, Edwin Bennet, M.D., Ph.D. Pratt Diagnostic Hospital, 30 Bennet St., Boston, Mass. *Research Prof. of Medicine, Tufts Med. School.* (**1,** 1939)

Atkin, Lawrence, Ph.D. The Fleischmann Labs., 810 Grand Concourse, New York City 51. *Asst. to Vice-Pres., Research and Development, Standard Brands, Inc.* (**2,** 1946; **5,** 1946)

Aub, Joseph C., M.D. Massachusetts General Hospital, Fruit St., Boston 14. *Prof. of Research Medicine, Harvard Med. School.* (**1,** 1919; **5,** 1933)

Avery, O. T., M.D., Sc.D. Hoods Hill Rd., Nashville, Tenn. *Member Emeritus, Rockefeller Inst. for Med. Research.* (**4,** 1921; **6R,** 1920)

Aviado, Domingo M., Jr., M.D. Univ. of Pennsylvania Med. School, Dept. of Pharmacology, Philadelphia. *Associate.* (**1,** 1951; **3,** 1950)

Awapara, Jorge, Ph.D. 2310 Baldwin St., Houston, Tex. *Research Biochemist, Univ. of Texas, M. D. Anderson Hospital.* (**2,** 1951)

Axelrod, Abe E., Ph.D. Western Reserve Univ., Inst. of Pathology, 2085 Adelbert Rd., Cleveland 6, Ohio. *Assoc. Prof. of Biochemistry.* (**2,** 1950; **5,** 1949)

Axelrod, Bernard, Ph.D. California Inst. of Technology, Biology Div., Pasadena. *Sr. Research Fellow, Biology; Chemist, USDA, Albany.* (**2,** 1948)

Axtmayer, Joseph H., Ph.D. Univ. of Puerto Rico, Rio Piedras. *Prof. of Chemistry.* **(5, 1935)**

Bacchus, Habeeb, Ph.D. George Washington Univ., School of Medicine, Dept. of Physiology, Washington, D. C. *Research Assoc.* **(1, 1952)**

Bach, L. M. N., Ph.D. Tulane Univ. School of Medicine, New Orleans, La. *Prof. of Physiology.* **(1, 1948)**

Bachem, Albert, Ph.D. Univ. of Illinois College of Medicine, Chicago 12. *Prof. of Biophysics.* **(1, 1933)**

Bachman, Carl, M.D. Univ. of Pennsylvania School of Medicine, 3400 Spruce St. Philadelphia 4. *Prof. and Dir. of Obstetrics and Gynecology.* **(2, 1941)**

Bachmann, George, M.D. Emory Univ. School of Medicine, Emory University, Ga. *Prof. Emeritus of Physiology.* **(1R, 1912)**

Bachrach, William H., M.D., Ph.D. Univ. of Southern California School of Medicine, Dept. of Physiology, Los Angeles 7. *Research Assoc.* **(1, 1949)**

Baer, Erich, Ph.D. Banting Inst., Banting and Best Dept. of Med. Research, 100 College St., Toronto, Ont., Canada. *Prof.* **(2, 1942)**

Baernstein, Harry D., Ph.D. Natl. Insts. of Health, Bethesda, Md. *Sr. Biochemist.* **(2, 1934)**

Baetjer, Anna M., D.Sc. Johns Hopkins School of Hygiene and Public Health, 615 N. Wolfe St., Baltimore 5, Md. *Assoc. Prof. of Environmental Medicine.* **(1, 1929)**

Baez, Silvio, M.D. 525 E. 68th St., New York City 32. *Research Assoc.* **(1, 1950)**

Bahrs, Alice M., Ph.D. 2735 Orchard St., Corvallis. Ore. **(1, 1933)**

Bailey, Cameron Vernon, C.M., M.D. New York Univ. and Hospital, 303 E. 20th St., New York City. *Clin. Prof. of Medicine.* **(2, 1920; 5R, 1933)**

Bailey, Orville T., M.D. Laura D. Carter Mem. Hospital, 1315 W. 10th St., Indianapolis 7, Ind. *Prof. of Neuropathology, Indiana Univ. Med. School.* **(4, 1939)**

Bailey, Percival, M.D., Ph.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago 12, Ill. *Prof. of Neurology and Neurosurgery.* **(1, 1941)**

Bain, James A., Ph.D. Univ. of Illinois College of Medicine, Dept. of Pharmacology, 1853 W. Polk St., Chicago 12. *Assoc. Prof.* **(3, 1951)**

Baitsell, George Alfred, Ph.D. Yale Univ., Osborn Zoological Lab., 165 Prospect St., New Haven, Conn. *Prof. of Biology.* **(1, 1915)**

Baker, A. B., M.D. Univ. of Minnesota Hospital, 19 Millard Hall, Minneapolis. *Dir. and Prof. of Neurology and Neuropathology.* **(4, 1940)**

Baker, Burton L., Ph.D. Univ. of Michigan, Dept. of Anatomy, Ann Arbor. *Assoc. Prof.* **(1, 1951)**

Baker, Edgar E., Ph.D. Boston Univ. School of Medicine, 80 E. Concord St., Boston 18, Mass. *Assoc. Prof. of Microbiology.* **(6, 1950)**

Baker, James A., D.V.M., Ph.D. Cornell Univ., New York State Veterinary College, Ithaca. *Prof. of Bacteriology.* **(4, 1947)**

Baker, Roger D., M.D. Med. College of Alabama, Birmingham 5. *Prof. of Pathology.* **(4, 1939)**

Baldes, Edward J., Ph.D. Mayo Clinic, Rochester, Minn. *Prof. of Biophysics, Mayo Fndn., Grad. School, Univ. of Minnesota; Chairman, Sec. on Biophysics & Biophysical Research, Mayo Clinic.* **(1, 1933)**

Bale, William F., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Prof. of Radiation Biology.* **(1, 1943)**

Ball, Eric G., Ph.D. Harvard Med. School, 25 Shattuck St., Boston 15, Mass. *Prof. of Biological Chemistry.* **(2, 1934)**

Ball, Howard A., M.D. 233 A St., San Diego, Calif. *Pathologist, Paradise Valley and Palomar Memorial Hospitals.* **(4, 1947)**

Balls, Arnold Kent, Ph.D. Purdue Univ., Dept. of Agricultural Chemistry, Lafayette, Ind. *Prof. of Enzyme Chemistry.* **(2, 1932)**

Bang, Frederik B., M.D. Johns Hopkins Hospital, Baltimore, Md. *Assoc. Prof. in Medicine.* **(4, 1947)**

Banus, Mario Garcia, D.Sc. Bright Meadows, Chestertown, Md. **(1, 1927)**

Bard, Philip, Ph.D., Johns Hopkins Univ. School of Medicine, 710 N. Washington St., Baltimore, Md. *Prof. and Dir. of Dept. of Physiology.* **(1, 1929)**

Barger, A. Clifford, M.D. Harvard Med. School, Dept. of Physiology, 25 Shattuck St., Boston 15, Mass. *Associate.* **(1, 1950)**

Barker, H. A., Ph.D. Univ. of California, 3048 Life Sciences Bldg., Berkeley 4. *Prof. of Plant Biochemistry.* **(2, 1946)**

Barker, S. B., Ph.D. Med. College of Alabama, Birmingham 5. *Prof. of Pharmacology.* **(1, 1938)**

Barlow, O. W., M.D., Ph.D. 3 Warwick Rd., Winchester, N. H. **(3, 1944)**

Barnes, B. O., Ph.D. 1160 S. Colorado Blvd., Denver 20, Colo. *Prof. of Health Education, Univ. of Denver.* **(1, 1932)**

Barnes, LaVerne A., Ph.D. Naval Med. Research Inst., Natl. Naval Med. Center, Bethesda 14, Md. *Head, Bacteriology Facility.* **(6, 1931)**

Barnes, Richard Henry, Ph.D. Sharp & Dohme, West Point, Pa. *Assoc. Dir. of Research.* **(2, 1941; 5, 1944)**

Barnes, Thomas C., D.Sc. Hahnemann Med. College and Hosp. of Philadelphia, Philadelphia, Pa. *Assoc. Prof. of Pharmacology; Electroencephalographer of Hahnemann Hospital.* **(1, 1942; 3, 1948)**

Barnett, Henry L., M.D. Cornell Univ. Med. Col-

lege, New York City 21. *Assoc. Prof. of Pediatrics.* (**1**, 1952)

Barnum, Cyrus P., Jr., Ph.D. Univ. of Minnesota, 210 Millard Hall, Minneapolis 14. *Assoc. Prof. of Physiological Chemistry.* (**2**, 1946)

Barott, Herbert G., E.E. U. S. Dept. of Agriculture, Natl. Agricultural Research Center, Beltsville, Md. *Biophysicist, Animal Nutrition Div., Bur. of Animal Industry.* (**5R**, 1938)

Barron, Donald H., Ph.D. Yale Univ. School of Medicine, New Haven, Conn. *Assoc. Prof. of Physiology.* (**1**, 1943)

Barron, E. S. Guzman, M.D. Univ. of Chicago, Dept. of Medicine, Chicago 37, Ill. *Assoc. Prof. of Biochemistry* (**2**, 1931)

Bartlett, Grant R., Ph.D. Scripps Metabolic Clinic, La Jolla, Calif. *Research Assoc.* (**2**, 1951)

Bartlett, Paul D., Ph.D. Edsel B. Ford Inst. for Med. Research, Henry Ford Hospital, Detroit 2, Mich. *Sr. Assoc. in Biochemistry.* (**2**, 1950)

Bartley, S. Howard, Ph.D. 242 N. Harrison Rd., East Lansing, Mich. (**1**, 1935)

Bass, Allan D., M.D. State Univ. of New York at Syracuse, School of Medicine, Syracuse, N. Y. *Prof. of Pharmacology.* (**3**, 1944)

Batchelder, Esther L., Ph.D. 8 Devon Rd., Silver Spring, Md. *Head of Food and Nutrition Div., Bureau of Human Nutrition and Home Economics.* (**5**, 1933)

Bateman, John B., Ph.D. Physical and Chemical Div., Camp Detrick, Frederick, Md. (**1**, 1945)

Bates, Robert W., Ph.D. Natl. Insts. of Health. Inst. of Arthritis and Metabolic Diseases, Bethesda 14, Md. (**2**, 1936)

Batson, Herbert C., Ph.D. Illinois Dept. of Public Health, Div. of Labs., 1800 W. Fillmore St., Chicago 12. *Prof. of Biostatistics, Univ. of Ill. College of Medicine, Dept. of Public Health.* (**6**, 1949)

Batterman, Robert C., M.D. New York Univ.-Bellevue Med. Center, 477 First Ave., New York City. *Asst. Prof. of Medicine.* (**3**, 1941)

Bauer, J. H., M.D. Rockefeller Foundation, 20 Rue de la Baume, Paris, (8e) France. (**4**, 1935)

Bauer, Walter, M.D. Massachusetts General Hospital, Boston. *Assoc. Prof. and Tutor in Medicine, Harvard Med. School.* (**1**, 1929)

Bauernfeind, J. C., Ph.D. Hoffmann-LaRoche, Inc., Nutley 10, N. J. *Chief of Applied Nutrition.* (**5**, 1947)

Bauman, Louis, M.D. Columbia Presbyterian Med. Center, 180 Fort Washington Ave. New York City 32. *Asst. Prof. of Clin. Medicine (retired), Columbia Univ.* (**2**, 1912)

Baumann, Carl A., Ph.D. Univ. of Wisconsin, Biochemistry Dept., Madison. *Prof. of Biochemistry.* (**2**, 1938; **5**, 1938)

Baumann, Emil J., Ph.D. 7 Church Lane, Scarsdale, N. Y. *Chemist, Montefiore Hospital.* (**2**, 1922)

Baumberger, J. Percy, Sc.D. Stanford Univ., Physiology Dept., Stanford Univ., Calif. *Prof. of Physiology.* (**1**, 1921)

Baxter, James H., M.D. Natl. Insts. of Health, Natl. Heart Inst., Bethesda, Md. *Section on Metabolism.* (**3**, 1948)

Bayne-Jones, Stanhope, M.A., M.D. New York Hospital, Cornell Med. Center, 525 E. 68th St., New York City 21. *Pres., Joint Admin. Board.* (**4**, 1927; **6**, 1917)

Beach, Eliot F., Ph.D. Metropolitan Life Insurance Co., 1 Madison Ave., New York City 10. *Research Biochemist.* (**2**, 1941; **5**, 1942)

Beadle, Buell W., Ph.D., 702-A, Lexington, USNOTS, China Lake, Calif. *Head, Tech. Div., Cmdr's. Staff.* (**2**, 1947)

Bean, John W., Ph.D., M.D. Univ. of Michigan, Ann Arbor. *Prof. of Physiology.* (**1**, 1932)

Beard, Howard H., Ph.D. Terrell's Labs. of Clin. Medicine, Med. Arts Bldg. Rm 24, Fort Worth, Tex. *Biochemist.* (**2**, 1928)

Beard, Joseph W., M.D. Duke Hospital, Durham, N. C. *Prof. of Surgery; Assoc. Prof. of Virology.* (**4**, 1938; **6**, 1940)

Beatty, Clarissa H., Ph.D. Univ. of Oregon Med. School, Portland. *Research Fellow.* (**1**, 1949)

Beazell, James Myler, Ph.D., M.D. 104 S. Michigan Ave., Chicago, Ill. *Instr. in Physiology and Pharmacology, Northwestern Univ. School of Medicine.* (**1**, 1939)

Beck, Claude S., M.D. Lakeside Hospital, Cleveland, Ohio. *Prof. of Cardiovascular Surgery, Western Reserve Univ.; Assoc. Surgeon, Lakeside Hospital.* (**4**, 1930)

Beck, Ivan Thomas, M.D. McGill Univ., Dept. of Pharmacology, Montreal, Canada. *Lecturer.* (**3**, 1951)

Beck, Lyle V., Ph.D. Univ. of Pittsburgh School of Medicine, Dept. of Physiology and Pharmacology, Pittsburgh 13, Pa. (**1**, 1941)

Becker, Elery R., D.Sc. Iowa State College, Dept. of Zoology and Entomology, Ames. *Prof.* (**6**, 1951)

Becker, Elmer L., M.D. Army Med. Service Grad. School, Immunology Div., Walter Reed Army Med. Center, Washington 12, D. C. *Chief, Dept. of Exper. Immunology.* (**6**, 1952)

Becker, R. Frederick, M.S., Ph.D. Duke Univ. Med. School, Dept. of Anatomy, Durham, N. C. (**1**, 1949)

Beckman, Harry, M.D. Marquette Univ. School of Medicine, Milwaukee, Wis. *Dir. of Dept. of Pharmacology.* (**3**, 1937)

Beecher, Henry K., M.D. Massachusetts General Hospital, Boston. *Anesthetist-in-Chief; Dorr*

Prof. of Research in Anesthesia, Harvard Med. School. (**1**, 1951; **3**, 1940)

Beerstecher, Ernest, Jr., Ph.D. Univ. of Texas, School of Dentistry, P. O. Box 8277, Houston. *Asst. Prof. of Biochemistry.* (**2**, 1950)

Beeson, W. M., Ph.D. Purdue Univ., Dept. of Animal Husbandry, Lafayette, Ind. *Prof.* (**5**, 1952)

Behnke, Albert R., M.S., M.D. Com. Nav. For. Ger., Force Med. Officer, APO 403, % Postmaster, N. Y. *Capt., MC, USN.* (**1**, 1946)

Behre, Jeanette Allen, Ph.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Biochemistry, 630 W. 168th St., New York City 32. *Associate.* (**2**, 1925)

Behrens, Otto K., Ph.D. Lilly Research Labs., Eli Lilly and Co., Indianapolis 6, Ind. *Dir., Div. of Biochemistry.* (**2**, 1949)

Behrmann, Vivian G., Ph.D. Wayne Univ., Detroit, Mich. *Instr., Grad. School; Res. Physiologist, Henry Ford Hospital.* (**1**, 1948)

Belding, David L., M.D. Boston Univ. School of Medicine, Boston, Mass. *Prof. Emeritus of Bacteriology and Exper. Pathology.* (**4**, 1927)

Belding, Harwood S., Ph.D. Univ. of Pittsburgh, Grad. School of Public Health, Dept. of Occupational Health, Pittsburgh 13, Pa. *Prof. of Environmental Physiology.* (**1**, 1945)

Belkin, Morris, Ph.D. Natl. Cancer Inst., Bethesda 14, Md. *Sr. Pharmacologist.* (**3**, 1949)

Bell, E. T., M.D. 110 Anatomy Bldg., Univ. of Minnesota, Minneapolis. *Prof. Emeritus of Pathology.* (**4**, 1931)

Bender, M. B., M.D. New York Univ. College of Medicine, New York City. *Assoc. Prof. of Neurology and Head of Lab. of Exper. Medicine.* (**1**, 1947)

Bendich, Aaron, Ph.D. Sloan-Kettering Inst. for Cancer Research, 444 E. 68th St., New York City 21. *Assoc., Protein-Chemistry.* (**2**, 1950)

Benditt, Earl P., M.D. Univ. of Chicago Clinics, Dept. of Pathology, Chicago 37, Ill. *Assoc. Prof.* (**4**, 1947)

Benedict, Francis G., Ph.D., M.D. Machiasport, Maine. (**1R**, 1904; **2R**, 1906)

Benesch, Reinhold, Ph.D. State Univ. of Iowa, Dept. of Biochemistry, Iowa City. *Asst. Prof.* (**2**, 1952)

Benham, Olive Ray, B.S. Connecticut State Dept. of Health, Bureau of Labs., Hartford. *Chief Serologist.* (**6**, 1944)

Bennett, A. Lawrence, Ph.D., M.D. Univ. of Nebraska College of Medicine, Omaha. *Prof. of Physiology and Pharmacology.* (**1**, 1941)

Bennett, Granville A., M.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago. *Prof. of Pathology.* (**4**, 1931)

Bennett, Henry S., M.D. Univ. of Washington School of Medicine, Seattle. *Dept. of Anatomy.* (**1**, 1946)

Bennett, Leslie L., M.D. Univ. of California, Berkeley 4. *Asst. Prof. of Physiology.* (**1**, 1945)

Bennett, Mary Adelia, Ph.D. Lankenau Hospital Research Inst., 7701 Burholme St., Fox Chase, Philadelphia 11, Pa. *Assoc. Member; Research Biochemist.* (**2**, 1941)

Bennett, Warren A. Mayo Clinic, Rochester, Minn. *Asst. Prof. of Pathology, Univ. of Minnesota.* (**4**, 1952)

Benson, Clara C., Ph.D. 160 Dorset St., West, Port Hope, Ontario, Canada. *Prof. Emeritus of Food Chemistry, Univ. of Toronto.* (**2**, 1906)

Benson, Otis O., Jr., M.S., M.D. USAF School of Aviation Medicine, Randolph Field, Tex. *Brig. Gen. USAF (MC); Commandant.* (**1**, 1951)

Benton, Joseph G., Ph.D., M.D. New York Univ. College of Medicine, 477 First Ave., New York City 16. *Adjunct Asst. Prof. of Physical Medicine and Rehabilitation.* (**3**, 1949)

Benzinger, Theodore, M.D., D.Sc. Naval Med. Research Inst., Bethesda 14, Md. (**1**, 1950)

Berg, Benjamin N., M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. in Pathology.* (**4**, 1928)

Berg, Clarence P., Ph.D. State Univ. of Iowa, Dept. of Biochemistry, Chemistry Bldg., Iowa City. *Prof. of Biochemistry.* (**2**, 1933; **5**, 1936)

Bergeim, Olaf, Ph.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago 12. *Prof. of Biochemistry.* (**1**, 1916; **2**, 1914)

Berger, F. M., M.D. 227 Prospect Ave., Princeton, N. J. *Dir., Wallace Labs., New Brunswick, N. J.* (**3**, 1949)

Bergmann, Werner, Ph.D. Yale Univ., Sterling Chemistry Lab., New Haven, Conn. *Prof. of Chemistry.* (**2**, 1934)

Berliner, Robert W., M.D. 4317 Elm St., Chevy Chase 15, Md. (**1**, 1950)

Bernard, Richard, Ph.D. Laval Univ., Dept. of Biology, Blvd. de l'Entente, Quebec, Canada. *Asst. Prof. of Physiology.* (**1**, 1947)

Berne, Robert M., M.D. Western Reserve Univ. Med. School, Dept. of Physiology, Cleveland 6, Ohio. *Sr. Instr.* (**1**, 1951)

Bernfeld, Peter, Ph.D. New England Center Hospital, Boston 11, Mass. *Assoc. Prof. of Biochemistry, Tufts College Med. School.* (**2**, 1952)

Bernheim, Frederick, Ph.D. Box 3109, Duke Univ. Med. School, Durham, N. C. *Prof. of Pharmacology.* (**2**, 1933; **3**, 1935)

Bernheimer, Alan Weyl, Ph.D. New York Univ. College of Medicine, 477 First Ave., New York City 16. *Asst. Prof. of Microbiology.* (**6**, 1951)

Bernthal, Theodore G., M.S., M.D. Med. College of the State of South Carolina, Dept. of Physiology, Charleston 16. *Prof.* (**1**, 1932)

Berry, George Packer, M.D. Harvard Med. School, Boston 15, Mass. *Dean and Prof. of Bacteriology.* (**6**, 1934)

Berryman, George H., Ph.D., M.D. 7534 33rd Ave., Kenosha, Wis. (**1,** 1949)

Bessey, Otto A., Ph.D. Univ. of Texas Med. Branch, Dept. of Biochemistry and Nutrition, Galveston. *Prof. and Chairman of Dept.* (**2,** 1938; **5,** 1943)

Best, Charles H., M.D., D.Sc. Univ. of Toronto, Toronto, Ontario, Canada. *Dir. of Banting and Best Dept. of Med. Research and Dept. of Physiology.* (**1,** 1923; **2,** 1923)

Bethell, Frank H., M.D. 409 Lenawee Drive, Ann Arbor, Mich. *Prof. of Internal Medicine and Asst. Dir. of the Thomas Henry Simpson Memorial Inst.* (**4,** 1936)

Bethke, Roland M., Ph.D. Ralston Purina Co., 835 S. 8th St., St. Louis 2, Mo. *Vice Pres. in charge of Research and Products Control.* (**2,** 1928; **5,** 1933)

Beutner, R., M.D., Ph.D. Greentown, Pike Co., Pa. (**1R,** 1924; **3,** 1924)

Bevans, Margaret. Columbia Research Div., Goldwater Memorial Hospital, Welfare Island, New York City. *Asst. Prof. of Pathology, Columbia Univ.* (**4,** 1952)

Beyer, Karl H., Ph.D., M.D. Sharp & Dohme, Inc. Med. Research Div., West Point, Pa. *Asst. Dir of Research.* (**1,** 1942; **3,** 1944).

Bickford, Reginald G., M.D. Mayo Clinic, Section on Physiology, Rochester, Minn. *Head of Lab. of Neurophysiology and Electroencephalography.* (**1,** 1949)

Biddulph, Clyde, Ph.D. Utah State Agricultural College, Logan. *Prof. of Physiology* (**1,** 1952)

Bier, Otto, M.D. Instituto Biologico, Caixa Postal 7119, São Paulo, Brazil. *Head, Immunological Dept.* (**6,** 1947)

Bierman, Howard R., M.D., Univ. of California School of Medicine, San Francisco 22. *Assoc. Clin. Prof. of Exper. Oncology.* (**3,** 1950)

Bieter, Raymond N., M.D., Ph.D. Univ. of Minnesota, Minneapolis. *Prof. and Head of Dept. of Pharmacology.* (**3,** 1930)

Bills, Charles E., Ph.D. 3421 Stringtown Rd. Evansville 11, Ind. *Independent Investigator.* (**2,** 1928; **5,** 1935)

Bing, Franklin C., Ph.D. 30 W. Washington St., Chicago, Ill. *Consultant.* (**2,** 1931; **5,** 1934)

Bing, Richard J., M.D. Med. College of Alabama, Birmingham. *Prof. of Experimental Medicine and Clinical Physiology.* (**1,** 1942)

Binkley, Francis, Ph.D. Emory Univ., Dept. of Biochemistry, Emory University, Ga. *Professor.* (**2,** 1947)

Binkley, Stephen Bennett, Ph.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago. *Assoc. Prof. of Biochemistry.* (**2,** 1941)

Bird, Francis H., Ph.D. Eastern States Farmers' Exchange, Inc., Westbrook Lab., Rockville, RFD 3, Conn. *Assoc. in Feed Research.* (**5,** 1951)

Bird, Herbert R., Ph.D. Bureau of Animal Industry, Agricultural Research Center, Beltsville, Md. *Sr. Biochemist.* (**5,** 1947)

Bird, Orson D., Ph.D. Parke, Davis and Co., Research Labs., Detroit 32, Mich. *Lab. Dir. in Nutritional Research.* (**2,** 1947)

Bird, Robert M., M.D. 800 N.E. 13th St., Oklahoma City, Okla. (**1,** 1950)

Birnie, James H., Ph.D. Morehouse College, Dept. of Biology, Atlanta, Ga. *Prof. and Chairman of Dept.* (**1,** 1952)

Birren, James E., Ph.D. 5550 S. Dorchester, Chicago 37, Ill. (**1,** 1950)

Bisbey, Bertha, Ph.D. 1402 Baro Ave., Columbia, Mo. *Prof. of Nutrition, Univ. of Missouri* (**5,** 1933)

Bischoff, Fritz E., Ph.D. Santa Barbara Cottage Hospital, Santa Barbara, Calif. *Dir. of Research.* (**2,** 1928; **5,** 1933)

Bishop, George H., Ph.D. Washington Univ. Med. School, Euclid and Kingshighway, St. Louis, Mo. *Prof. of Biophysics.* (**1,** 1923)

Biskind, Gerson R., M.D. 450 Sutter St., San Francisco, Calif. *Pathologist, Mt. Zion Hospital; Clin. Instr. in Pathology, Univ. of California Med. School.* (**4,** 1944)

Black, Alex, Ph.D. Pennsylvania State College, Dept. of Animal Nutrition, State College. *Prof. of Animal Nutrition.* (**5,** 1947)

Black, Edgar C., Ph.D. Univ. of British Columbia, Dept. of Physiology, Vancouver, B. C., Canada. (**1,** 1943)

Black, Simon, Ph.D. Massachusetts General Hospital, Biochemical Research Lab., Boston 14. *Fellow, American Society for Infantile Paralysis.* (**2,** 1948)

Blair, Edgar A., Ph.D. Med. Field Service School, Fort Sam Houston, Tex. *Lt. Col.* (**1,** 1936)

Blair, Henry A., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Prof. of Physiology and Dir. of Dept. of Radiation Biology* (**1,** 1934)

Blair, Joseph Reese, M.A., M.D. Army Med. Research Lab., Fort Knox, Ky. *Chief, Cold Injury Research Section; Lt. Col., USA.* (**1,** 1952)

Blake, William D., M.D. Univ. of Oregon Med. School, Dept. of Physiology, Portland 1. (**1,** 1950)

Blanchard, Ernest W., Ph.D. Schieffelin and Co., 30 Cooper Sq., New York City 3. *Dir. of Research.* (**1,** 1946)

Blankenhorn, M. A., M.D. Univ. of Cincinnati, Cincinnati, Ohio. *Prof. of Medicine.* (**4,** 1932)

Blatherwick, Norman R., Ph.D. P.O. Box 3422, Daytona Beach, Fla. (**1,** 1915; **2,** 1915; **5,** 1934)

Blau, Nathan F., Ph.D. Veterans Admin. Center, E. Kellogg & Bradley Drive, Wichita 8, Kan. *Research Biochemist, VA Hospital.* (**2,** 1928)

Blish, Morris J., Ph.D. Internatl. Minerals and Chemical Corp., 5401 Harrison St., Skokie, Ill.

Supevisor of Organic and Biochem. Research. (**2,** 1944)

Bliss, Chester Ittner, Ph.D. Conn. Agricultural Exper. Station, P. O. Box 1106, New Haven. *Biometrician; Lecturer in Biometry, Yale Univ.* (**3,** 1944)

Bliss, Eleanor A., Sc.D. Johns Hopkins Hospital, Dept. of Preventive Medicine, 615 N. Wolfe St., Baltimore, Md. *Assoc. in Preventive Medicine, Johns Hopkins Univ. School of Medicine.* (**6,** 1931)

Bloch, Konrad, Ph.D. Univ. of Chicago, Dept. of Biochemistry, Chicago 37, Ill. *Professor.* (**2,** 1944)

Block, Richard J., Ph.D. 15 Cooper Rd., Scarsdale, N. Y. *Assoc., Dept. of Biochemistry, New York Med. College, Flower and Fifth Ave. Hospital; Dir., Biochemical Research Lab., Special Products Div., Borden Co, Yonkers,* (**2,** 1934; **5,** 1933)

Block, Walter D., Ph.D. University Hospital, Univ. of Michigan, Ann Arbor. *Assoc. Prof. of Biological Chemistry.* (**2,** 1942)

Blood, Frank R., Ph.D. Vanderbilt Univ., Dept. of Biochemistry, Nashville 4, Tenn. *Professor.* (**1,** 1950)

Bloom, William, M.D. 1419 E. 56th St., Chicago, Ill. *Prof. of Anatomy, Univ. of Chicago.* (**4,** 1930)

Bloomfield, A. L., M.D. Stanford Univ. Hospital, San Francisco, Calif. *Prof. of Medicine.* (**3,** 1927; **4,** 1927)

Bloor, W. R., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester 20, N. Y. *Prof. Emeritus of Biochemistry.* (**1R,** 1915; **2,** 1910)

Blum, Harold F., Ph.D. Princeton Univ., Dept. of Biology, Princeton, N. J. *Physiologist, Natl. Cancer Inst., and Visiting Lecturer.* (**1,** 1928)

Blumberg, Harold, Sc.D. Endo Products, Inc., 84–40 101st St., Richmond Hill 18, N. Y. *Head of Biological Labs.* (**5,** 1942)

Blumenstock, Julius, M.D. Veterans Admin. Hospital, Sheridan, Wyo. (**1,** 1925)

Blumenthal, Herman T., M.D. St. Louis Univ. School of Medicine, 1402 S. Grand Blvd., St. Louis 4, Mo. *Assoc. Prof. of Pathology; Dir. of Labs., Jewish Hospital.* (**4,** 1951)

Blumgart, Herrmann L., M.D. Beth Israel Hospital, 330 Brookline Ave., Boston, Mass. *Physician-in-Chief; Prof. of Medicine, Harvard Med. School.* (**1,** 1927)

Bly, Chauncey G., M.D., Ph.D. Univ. of Kansas School of Medicine, 39th and Rainbow, Kansas City. *Asst. Prof. of Pathology and Oncology.* (**4,** 1951)

Bobb, J. Richard R., M.D. Temple Univ. Med. School., Dept. of Pharmacology, Philadelphia, Pa. *Asst. Prof.* (**1,** 1949)

Bock, Joseph C., Ph.D. 2324 N. 46th St., Milwaukee 10, Wis. *Prof. Emeritus of Biochemistry, Marquette Univ. Med. School; Biochemist, Milwaukee County Hospital* (**2,** 1916)

Bodansky, Aaron, Ph.D. Hospital for Joint Diseases, 1919 Madison Ave., New York City. *Biological Chemist.* (**2,** 1926)

Bodansky, Oscar, Ph.D., M.D. Memorial Cancer Center, 444 E. 68th St., New York City 21. *Chief, Clin. Biochemistry; Prof. of Biochemistry, Sloan-Kettering Div., Cornell Med. College.* (2, 1937; **3,** 1942)

Bodian, David, Ph.D., M.D. Johns Hopkins Univ., 1901 E. Madison St., Baltimore, Md. *Assoc. Prof. of Epidemiology.* (**6,** 1949)

Bodine, Joseph Hall, Ph.D. State Univ. of Iowa, Iowa City. *Prof. and Head of Dept. of Zoloogy.* (**1,** 1925)

Boell, Edgar J., Ph.D. Yale Univ., Osborn Zoological Lab., New Haven, Conn. *Ross G. Harrison Prof. of Exper. Zoology.* (**1,** 1942)

Boettiger, Edward G., Ph.D. Univ. of Connecticut, Box U-42, Storrs. *Asst. Prof. of Zoology.* (**1,** 1950)

Boger, William P., M.D. 7237 Bradford Rd., Upper Darby, Pa. *Med. Dir., Sharp & Dohme, Inc.; Assoc. in Medicine, Univ. of Pennsylvania Med. School.* (**3,** 1948)

Bogert, L. Jean, Ph.D. Hotel Claremont, Berkeley, Calif. (**2,** 1917)

Bogert, Marston Taylor, Sc.D. 1158 Fifth Ave., New York City 29. *Prof. Emeritus of Organic Chemistry, Columbia Univ.; Sr. Chemical Consultant at Evans Research and Development Corp.* (2, 1925)

Bohr, David F., M.D. Univ. of Michigan, Physiology Lab., Ann Arbor. *Assoc. Prof.* (**1,** 1949)

Bolliger, Adolph, Ph.D. Univ. of Sydney, Gordon Craig Research Lab., Sydney, Australia. *Dir. of Research.* (**2,** 1928)

Bollman, J. L., M.D. Mayo Clinic, Rochester, Minn. *Chairman of Div. of Exper. Medicine; Prof. of Physiology, Mayo Foundation.* (**4,** 1927)

Bond, Glenn C., Ph.D., M.D. The Upjohn Co., Research Lab., Kalamazoo, Mich. *Asst. Dept. Head of Bacteriology Research.* (**6,** 1939)

Bondi, Amedeo. Hahnemann Med. College, Philadelphia, Pa. *Prof. and Head of Dept. of Bacteriology.* (**6,** 1948)

Bonner, David M., Ph.D. Yale Univ., Osborn Botanical Lab., New Haven, Conn. *Assoc. Prof. and Research Assoc.* (**2,** 1948)

Bonner, James, Ph.D. California Inst. of Technology, Pasadena 4. *Prof. of Biology.* (**2,** 1952)

Bonnycastle, Desmond D., M.D., Ph.D. Yale Univ. School of Medicine, New Haven, Conn. *Asst. Prof. of Pharmacology.* (**3,** 1947)

Bonsnes, Roy W., Ph.D. Cornell Univ. Med. College, Dept. of Biochemistry, 1300 York Ave., New York City 21. *Assoc. Prof.; Assoc. Prof. of*

Biochemistry in Obstetrics and Gynecology. (**2,** 1947)

Booher, Lela E., Ph.D. % Miss Della Phillips, 329 E. Franklin Ave., Minneapolis, Minn. (**2,** 1933; **5,** 1933)

Booker, Walter M., Ph.D. Howard Univ. School of Medicine, Washington, D. C. *Assoc. Prof. of Pharmacology.* (**1,** 1948; **3,** 1948)

Boone, Bert R., M.D. Natl. Insts. of Health, Natl. Heart Inst., Bethesda 14, Md. *Chief, Technical Development Sec.* (**1,** 1951)

Boor, Alden K., Ph.D. Camp Detrick, Biological Labs., Frederick, Md. *Chief, Chemistry Branch.* (**2,** 1931)

Boothby, Walter M., M.A., M.D. Lovelace Clinic and Fndn., Albuquerque, N. M. (**1R,** 1915; **2,** 1920; **3R,** 1923; **4R,** 1924)

Borchers, Raymond, Ph.D. Univ. of Nebraska, College of Agriculture, Lincoln 3. *Assoc. Chemist, Dept. of Agricultural Chemistry; Assoc. Prof., Dept. of Chemistry.* (**5,** 1951)

Bordley, James, III, M.D. Mary Imogene Bassett Hospital, Cooperstown, N. Y. (**1,** 1938)

Borek, Ernest, Ph.D. College of the City of New York, Convent Ave. and 140th St., New York City. *Asst. Prof.; Research Assoc. in Biochemistry, Columbia Univ.* (**2,** 1947)

Borison, Herbert Leon, M.S., Ph.D. Univ. of Utah, College of Medicine, Dept. of Pharmacology, Salt Lake City. *Asst. Prof.* (**1,** 1950; **3,** 1952)

Boroff, Daniel A., M.A., M.S. State Research Hospital, Galesburg, Ill. *Chief Bacteriologist.* (**6,** 1947)

Borsook, Henry, M.D., Ph.D. California Inst. of Technology, Pasadena 4. *Prof. of Biochemistry.* (**2,** 1931)

Bosshardt, David K., Ph.D. Sharp & Dohme, Med. Research Div., West Point, Pa. *Research Biochemist.* (**5,** 1947)

Bostick, Warren L., M.D. Univ. of California Med. School, Dept. of Pathology, San Francisco 22. *Assoc. Prof.* (**4,** 1949)

Bosworth, Alfred Willson, A.M., M.D. R.F.D. 4, Circleville, Ohio. *Consulting Chemist.* (**2,** 1936; **5R,** 1935)

Bott, Phyllis A., Ph.D. Woman's Med. College of Pennsylvania, Henry Ave. and Abbotsford Rd., Philadelphia. *Prof. and Chairman of Dept. of Physiological Chemistry.* (**2,** 1938)

Botts, Dorothy Jean, Ph.D. Naval Med. Research Inst., Div. of Physical Biochemistry, Natl. Naval Med. Center, Bethesda 14, Md. *Physiologist.* (**1,** 1952)

Boucher, Robert V., Ph.D. 303 Frear Labs. Pennsylvania State College, State College, Pa. *Prof. of Agricultural and Biological Chemistry.* (**5,** 1945)

Bouman, H. D., M.D. Univ. of Wisconsin Med. School, Madison. *Prof. of Physical Medicine.* (**1,** 1943)

Bourne, Wesley, M.D., M.Sc. McGill Univ., Montreal, Quebec, Canada. *Prof. and Chairman, Dept. of Anesthesiology.* (**3,** 1936)

Bourque, Joseph E., M.D., Ph.D. 2700 Western Ave., Park Forest, Ill. *Asst. Prof., Univ. of Illinois.* (**1,** 1949)

Bourquin, Helen, Ph.D. 1331 N. Tejon St., Colorado Springs, Colo. (1, 1925)

Bowen, William J., Ph.D. USPHS, Inst. of Exper. Biology & Medicine, Bethesda 14, Md. *Sr. Asst. Scientist.* (**1,** 1948)

Bowman, Donald E., Ph.D. Indiana Univ., School of Medicine, Dept. of Biochemistry, Indianapolis, Ind. *Prof. of Biochemistry.* (**2,** 1944)

Bowman, Katherine L., B.A. Allergy Lab., Jewish Hospital of Brooklyn, Brooklyn 16, N. Y. *Research Fellow in Allergy.* (**6,** 1946)

Boxer, George E., Ph.D. 662 Bryant St., Rahway, N. J. *Sr. Chemist, Research and Development Div., Merck & Co., Inc.* (**2,** 1946)

Boyd, Eldon M., M.A., M.D. Queen's Univ., Kingston, Ontario, Canada. *Prof. and Head of Dept. of Pharmacology.* (**3,** 1941)

Boyd, Linn J., M.D. New York Med. College and Flower & Fifth Ave. Hospitals, 1 E. 105th St., New York City 29. *Prof. of Pharmacology; Dir. of Medicine.* (**3,** 1950)

Boyd, M. John, Ph.D. Hahnemann Med. College, 235 N. 15th St., Philadelphia 2, Pa. *Prof. and Head, Div. of Biol. Chemistry.* (**2,** 1947)

Boyd, T. E., Ph.D. 9 Walworth Ave., Scarsdale, N. Y. *Assoc. Dir. of Research, Natl. Fndn. for Infantile Paralysis, 120 Broadway, New York City 5.* (**1,** 1924)

Boyd, William C., Ph.D. Boston Univ. School of Medicine, 80 E. Concord St., Boston 18, Mass. (**6,** 1933)

Boyden, Allan A. Rutgers Univ., New Brunswick, N. J. *Prof. of Zoology.* (**6,** 1948)

Boyden, Edward A., Ph.D. Univ. of Minnesota, Minneapolis 14. *Prof. and Chairman of Dept. of Anatomy.* (**1,** 1929)

Boyer, Paul D., Ph.D. Univ. of Minnesota College of Agriculture, Div. of Biochemistry, St. Paul 1. *Assoc. Prof.* (**2,** 1944)

Boyle, Paul E., D.M.D. Univ. of Pennsylvania School of Dentistry, 40th and Spruce Sts., Philadelphia 4. *Prof. of Oral Pathology.* (**4,** 1939)

Bozicevich, John, M.A. USPHS, Natl. Insts. of Health, Bethesda, Md. *Head, Subsection of Immunology, Trop. Diseases Div.* (**6,** 1948)

Bozler, Emil, Ph.D. Ohio State Univ., Columbus. *Prof. of Physiology.* (**1,** 1932)

Bradbury, James T., Sc.D. Univ. of Louisville School of Medicine, 101 W. Chestnut St., Louisville 2, Ky. (**1,** 1941)

Bradley, Harold C., Ph.D. 2639 Durant Ave., Berkeley, Calif. (**1R,** 1911; **2,** 1908)

Bradley, Stanley E., M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. Prof. of Medicine.* (**1,** 1947)

Bradley, William B., Ph.D. American Inst. of Baking, 1046 Elmwood Ave., Wilmette, Ill. *Dir. of Labs.* (**1,** 1939)

Bragdon, Joseph Henry, M.D. Natl. Insts. of Health, Exper. Biology and Medicine Inst., Pathology Lab., Bethesda 14, Md. *Surgeon, USPHS.* (**4,** 1950)

Branch, E. Arnold G., M.D. Lancaster Hospital, St. John, New Brunswick, Canada. *Chief, Lab. Service; Provincial Med. Dir., Red Cross Blood Transfusion Service.* (**4,** 1929)

Brand, Erwin, Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. Prof. of Biological Chemistry.* (**1,** 1951; **2,** 1929)

Brandes, W. W., M.D. Roosevelt Hospital, W. 59th St., New York City. (**4,** 1931)

Branham, Sara E., Ph.D., M.D., Natl. Insts. of Health, Bethesda, Md. *Sr. Bacteriologist.* (**6,** 1926)

Branion, Hugh Douglas, Ph.D. Ontario Agricultural College, Guelph, Canada. *Prof. and Head of Dept. of Nutrition.* (**5,** 1933)

Brassfield, Charles R., Ph.D. Univ. of Michigan, Ann Arbor. *Prof. of Physiology.* (**1,** 1937)

Bratton, Andrew Calvin, Jr., M.D., Ph.D. Parke, Davis and Co., Research Labs., Detroit 32, Mich. *Dir. of Pharmacological Research.* (**3,** 1941)

Brauer, Ralph W., Ph.D. Naval Radiological Defense Lab., San Francisco, Calif. *Head, Metabolism Sec.* (**3,** 1948)

Braun, Herbert A., Ph.D. Fed. Security Agency, Food and Drug Admin., Washington, D. C. *Pharmacologist.* (**3,** 1941)

Brazier, Mary A. B., Ph.D. Massachusetts General Hospital, Electroencephalographic Lab., Boston 14. *Research Assoc. in Neuropathology, Harvard Med. School.* (**1,** 1947)

Brecher, George, M.D. Natl. Insts. of Health, Bethesda 14, Md. (**4,** 1949)

Brecher, Gerhard A., M.D., Ph.D. Western Reserve Univ. Med. School, Dept. of Physiology, Cleveland 6, Ohio. *Sr. Instructor.* (**1,** 1949)

Breedis, Charles, M.D. Univ. of Pennsylvania School of Medicine, Philadelphia. *Asst. Prof. of Experimental Pathology.* (**4,** 1948)

Bremer, Frederic, M.D. 115 Blvd. de Waterloo, Brussels, Belgium. *Prof. and Dir. of Dept. of Gen. Pathology, Univ. of Brussels.* (**1H,** 1950)

Brewer, Carl R., Ph.D. Camp Detrick, Frederick, Md. *Chief, Bacterial Nutrition Branch, Biological Div., Chemical Corps.* (**2,** 1948)

Brewer, John H., Ph.D. Hynson Westcott and Dunning, Baltimore, Md. *Dir. of Biological Research.* (**6,** 1948)

Brewer, Nathan R., Ph.D., D.V.M. Univ. of Chicago, Chicago, Ill. *Research Assoc., Dept. of Physiology; Asst. Prof., Supt. of Animal Qtrs.* (**1,** 1948)

Brewer, Wilma D., Ph.D. Michigan State College, Dept. of Foods and Nutrition, East Lansing. *Assoc. Prof.* (**5,** 1951)

Bridge, Edward M., M.D. Univ. of Buffalo School of Medicine, 24 High St., Buffalo 9, N. Y. *Prof. of Pharmacology.* (**2,** 1940; **3,** 1951)

Briggs, A. P., M.D. Univ. of Georgia Med. College, Augusta. *Prof. of Biochemistry.* (**2,** 1923)

Briggs, David R., Ph.D. Univ. of Minnesota, Div. of Agricultural Biochemistry, Univ. Farm, St. Paul 1. *Prof. of Agricultural Biochemistry; Chemist, Minn. Agricultural Exper. Station.* (**2,** 1946)

Briggs, George M., Ph.D. Natl. Insts. of Health, Poultry Nutrition Unit, Lab. of Biochemistry and Nutrition, Bethesda 14, Md. *Chief.* (**5,** 1947)

Brink, Frank Jr., Ph.D. Johns Hopkins Univ., Biological Labs., Baltimore 18, Md. (**1,** 1942)

Brinkhous, K. M., M.D. Univ. of North Carolina School of Medicine, Dept. of Pathology, Chapel Hill. *Prof. of Pathology.* (**4,** 1939)

Briody, Bernard A., Ph.D. Yale Univ. School of Medicine, 333 Cedar Street, New Haven 11, Conn. *Asst. Prof. of Microbiology.* (**6,** 1951)

Britton, Sydney W., M.D. Univ. of Virginia School of Medicine, Charlottesville. *Prof. of Physiology.* (**1,** 1925)

Brobeck, John R., M.D., Ph.D. Univ. of Pennsylvania, School of Medicine, Philadelphia 4. *Chairman, Dept. of Physiology.* (**1,** 1943)

Brodie, Bernard B., Ph.D. Natl. Insts. of Health, Natl. Heart Inst., Bethesda 14, Md. *Chief, Section on Chemical Pharmacology.* (**2,** 1940; **3,** 1945)

Brodsky, William A., M.D. Univ. of Louisville, Inst. for Med. Research, Louisville, Ky. *Asst. Prof. of Pediatrics; Dir. of Labs., Children's Hospital.* (**1,** 1952)

Brody, Samuel, Ph.D. Univ. of Missouri College of Agriculture and Agricultural Experiment Station, Dairy Building, Columbia. *Prof. of Dairy Husbandry.* (**2,** 1929; **5,** 1933)

Broh-Kahn, Robert H., M.D. Nepera Chemical Co., Yonkers, N. Y. (**1,** 1948)

Bromiley, Reginald B., Ph.D. Defense Research Med. Labs., RCAF Station, 1107 Avenue Rd., Toronto, Ont., Canada. (**1,** 1949)

Bronfenbrenner, J. J., Ph.D., D.P.H. Wake Forest College, Bowman Gray School of Medicine, Winston-Salem, N. C. (**4,** 1940; **6,** 1918)

Bronk, Detlev W., Ph.D., Sc.D. Johns Hopkins Univ., Baltimore, Md. *Pres.; Pres., Natl. Academy of Sciences, Washington, D. C.* (**1,** 1927)

Brookes, Margaret C. Hessler, Ph.D. 5718 S. Dorchester Ave., Chicago 37, Ill. *Asst. Prof., Chicago Teachers College.* (**5,** 1935)

Brookhart, John M., Ph.D. Univ. of Oregon School of Medicine, Dept. of Physiology, Portland. *Assoc. Prof.* (**1,** 1946)

Brooks, Chandler McCuskey, Ph.D. State Univ. of New York Med. Center at New York, College of Medicine, 350 Henry St., Brooklyn 2. *Prof. of Physiology and Pharmacology; Exec. Officer of Dept.* (**1,** 1934; **3,** 1950)

Brooks, Clyde, Ph.D., M.D. Univ. Clinic, 2506 Ponce de Leon Blvd., Coral Gables, Fla. *Internal Medicine.* (**1,** 1910; **3,** 1912)

Brooks, Matilda Moldenhauer, Ph.D. Univ. of California, Dept. of Physiology, Berkeley. *Research Assoc. in Biology.* (**1,** 1923)

Broquist, Harry P., Ph.D. Lederle Labs. Div., American Cyanamid Co., Pearl River, N. Y. *Chemist.* (**2,** 1951)

Broun, Goronwy Owen, M.D. 1325 S. Grand Blvd., St. Louis, Mo. *Prof. of Internal Medicine, St. Louis Univ.* (**4,** 1927)

Brown, Barbara Banker, Ph.D. Wm. S. Merrell Co., Pharmacology Dept., Cincinnati 15, Ohio. *Research Pharmacologist.* (**3,** 1951)

Brown, Claude P., M.D. 1930 Chestnut St., Philadelphia, Pa. *Practicing Clin. Pathologist.* (**6,** 1913)

Brown, Dugald E. S., Ph.D. Univ. of Michigan, Dept. of Zoology, Ann Arbor. (**1,** 1932)

Brown, Edgar D., Pharm. D., M.D. Paynesville, Minn. *Retired.* (**1R,** 1907; **3R,** 1909)

Brown, Ernest B., Jr., Ph.D. Univ. of Minnesota, Dept. of Physiology, Minneapolis. *Asst. Prof.* (**1,** 1950)

Brown, Ethan Allen, L.R.C.P. (Eng.), M.R.C.S. (London). 75 Bay State Rd., Boston, Mass. *Asst. Prof. of Pediatrics, Tufts College Med. School; Physician-in-Chief, Allergy Section, Boston Dispensary Section, New England Med. Center.* (**6,** 1946)

Brown, Frank A., Jr., Ph.D. Northwestern Univ., Zoological Labs., Evanston, Ill. *Assoc. Prof. of Zoology.* (**1,** 1940)

Brown, George B., Ph.D. Sloan-Kettering Inst. for Cancer Research, 444 E. 68th St., New York City 21. *Head, Div. of Protein Chemistry; Prof. of Biochemistry, Sloan-Kettering Div., Cornell Univ. Med. College.* (**2,** 1947)

Brown, Gordon Campbell, Sc.D. School of Public Health, Ann Arbor, Mich. *Assoc. Prof. of Epidemiology.* (**6,** 1949)

Brown, Jack Harold U., Ph.D. Univ. of North Carolina, School of Medicine, Chapel Hill. *Asst. Prof. of Physiology,* (**1,** 1952)

Brown, John B., Ph.D. Ohio State Univ., Columbus. *Prof. of Physiological Chemistry and Dir., Inst. of Nutrition and Food Technology.* (**2,** 1927; **5,** 1934)

Brown, R. A., Ph.D. Parke Davis and Co., Research Labs., Detroit 32, Mich. *Head of Div. of Nutritional Research.* (**5,** 1946)

Brown, Rachel, Ph.D. 26 Buckingham Drive, Albany, N. Y. *Sr. Biochemist, Div. of Labs. and Research, N. Y. State Dept. of Health.* (**6,** 1933)

Brown, Robert V., Ph.D. Univ. of Tennessee, Dept. of Pharmacology, Memphis 3. *Assoc. Prof.* (**1,** 1945; **3,** 1950)

Browne, J. S. L., M.D., Ph.D. Royal Victoria Hospital, Univ. Clinic, Montreal, Que., Canada. *Asst. Prof. of Medicine, McGill Univ.* (**1,** 1934)

Brownell, Katharine A., Ph.D. Ohio State Univ., Dept. of Physiology, Columbus. *Research Assoc.* (**1,** 1943)

Brozek, Josef, Ph.D. Univ. of Minnesota, Stadium South Tower, Minneapolis 14. *Assoc. Prof., Lab. of Physiological Hygiene, School of Public Health.* (**1,** 1947)

Brues, Austin M., M.D. Argonne National Labs., P.O. Box 5207, Chicago, Ill. *Dir. of Biology Div.; Assoc. Prof. of Medicine and Instr. of Radiobiology and Biophysics, Univ. of Chicago.* (**1,** 1940)

Bruesch, S. R., M.D., Ph.D. Univ. of Tennessee, Div. of Anatomy, Memphis 3. *Prof. of Anatomy.* (**1,** 1949)

Bruger, Maurice, M.D., M.Sc. 301 E. 20th St., New York City 3. *Assoc. Prof. of Medicine, New York Univ. Post-Grad. Med. School; Chief, Div. of Pathological Chemistry, New York University Hospital.* (**2,** 1935; **5,** 1935)

Bruhn, John M., Ph.D. Med. College of Alabama, Dept. of Physiology, 620 S. 20th St., Birmingham 5. *Prof. of Physiology and Pharmacology.* (**1,** 1939)

Bruner, Harry Davis, M.D., Ph.D. Med. Div. ORINS, Med. Div., Box 117, Oak Ridge, Tenn. *Principal Scientist.* (**3,** 1945)

Brunschwig, Alexander, M.D. Cornell Univ. Med. College, New York City. *Prof. of Clin. Surgery; Attending Surgeon, Memorial Hosp.* (**4,** 1937)

Bryan, W. Ray, Ph.D. 4405 Bywood Lane, Bethesda, Md. *Principal Biologist, Natl. Cancer Inst.* (**1,** 1934; **4,** 1940)

Buchanan, John M., Ph.D. Univ. of Pennsylvania School of Medicine, Dept. of Physiological Chemistry, Philadelphia. *Prof.* (**2,** 1949)

Buchbinder, Lean, Ph.D. Dept. of Health, 125 Worth St., New York City. *Sr. Bacteriologist in charge of Lab.* (**6,** 1934)

Buchbinder, William C., M.D. 1893 Sheridan Rd., Highland Park, Ill. *Assoc. Prof. of Medicine, Northwestern Univ. Med. School; Attending in Medicine, Michael Reese Hospital and VA Hospital, Hines; Consultant in Medicine, Highland Park Hospital.* (**1,** 1940)

Bucher, Gladys R., Ph.D. Georgetown Univ.

School of Medicine, Dept. of Pharmacology, Washington, D. C. (**1**, 1946)

Buckner, G. Davis, Ph.D. Kentucky Agricultural Exper. Station, Lexington. *In charge of Animal Nutrition.* (**2R**, 1920)

Bucy, Paul C., M.D. 5830 Stony Isld. Ave., Chicago 37, Ill. *Prof. of Neurology and Neurological Surgery, Univ. of Illinois.* (**1**, 1933)

Buddingh, G. John, M.D. Louisiana State Univ. School of Medicine, New Orleans. *Prof. of Microbiology.* (**4**, 1940)

Bueding, Ernest, M.D. Western Reserve Univ. School of Medicine, Dept. of Pharmacology, Cleveland 6, Ohio. *Assoc. Prof. of Pharmacology.* (**2**, 1946; **3**, 1949)

Buell, Mary V., Ph.D. Washington Univ. School of Medicine, Euclid Ave. and Kingshighway, St. Louis 10, Mo. *Research Assoc., Dept. of Pharmacology.* (**2**, 1921)

Bugher, John C., M.D. The Rockefeller Foundation, 49 W. 49th St., New York City 21. *Member, Internatl. Health Div.* (**4**, 1935)

Bukantz, Samuel C., M.D. Washington Univ. School of Medicine, St. Louis 10, Mo. *Research Asst. in Medicine.* (**6**, 1943)

Bulatao, Emilio, M.D. Univ. of the Philippines, Manila, P. I. *Prof. of Physiology and Biochemistry.* (**1**, 1924)

Bull, Henry B., Ph.D. State Univ. of Iowa, Dept. of Biochemistry, Iowa City. *Prof. and Head of Dept.* (**2**, 1937)

Bullock, Theodore H., Ph.D. Univ. of California, Los Angeles. *Assoc. Prof. of Zoology.* (**1**, 1948)

Bunde, Carl A., M.D., Ph.D. Pitman-Moore Co., Indianapolis 6, Ind. *Research Dir.* (**1**, 1943)

Bunney, William Edward, Ph.D. E. R. Squibb and Sons, New Brunswick, N. J. *Vice Pres.; Dir. of Manufacturing Labs.* (**6**, 1931)

Bunting, Charles H., M.D. 139 Armory St., Hamden, Conn. *Prof. Emeritus of Pathology, Univ. of Wisconsin; Lecturer in Pathology, Yale Med. School.* (**4**, 1913)

Bunzell, H. H., Ph.D. Box 44, General Post Office, New York City 1. *Dir. of Bunzell Labs.* (**2**, 1908)

Burchell, Howard B., M.D., Ph.D. Rochester, Minn. *Instr. in Medicine, Mayo Foundation; Consultant in Medicine, Mayo Clinic.* (**1**, 1942)

Burdick, H. O., Sc.D. Alfred Univ., Alfred, N. Y. *Prof. of Biology.* (**1**, 1940)

Burdon, Kenneth L., Ph.D. Baylor Univ. College of Medicine, Houston, Tex. *Prof. of Bacteriology; Consultant, USPHS.* (**6**, 1936)

Burgen, A. S. V., M.B., MRCP. McGill Univ., Dept. of Physiology, Montreal, Quebec, Canada. *Professor.* (**1**, 1950; **3**, 1950)

Burk, Dean, Ph.D. Natl. Cancer Inst., Bethesda, Md. *Head Chemist, USPHS.* (**2**, 1939)

Burke, Bertha S., M.A. Harvard School of Public Health, 55 Shattuck St., Boston 15, Mass. *Assoc. Prof. of Maternal and Child Nutrition.* (**5**, 1952)

Burns, Edward L., M.D. Mercy Hospital, Toledo, Ohio. *Pathologist.* (**4**, 1939)

Burr, George O., Ph.D. Exper. Station. H.S.P.A., Honolulu, Hawaii. *Head of Dept. of Biochemistry and Physiology.* (**2**, 1928; **5**, 1933)

Burris, Robert H., Ph.D. Univ. of Wisconsin, Dept. of Biochemistry, Madison 6. *Prof.* (**2**, 1946)

Burroughs, Wise, Ph.D. Iowa State College, Dept. of Animal Husbandry, Ames. *Assoc. Prof.* (**5**, 1951)

Burrows, William, Ph.D. Univ. of Chicago, Dept. of Bacteriology, Chicago 37, Ill. *Prof. of Bacteriology.* (**6**, 1947)

Burton, Alan C., Ph.D. Univ. of Western Ontario Med. School, Dept. of Biophysics, London, Ontario, Canada. *Prof.* (**1**, 1937)

Burton-Opitz, Russell, M.D., Ph.D. 218 Bridle Way, Palisade, N. J. *Attending Cardiologist, Lenox Hill Hospital; Attending Physician, Cumberland Hospital.* (**1R**, 1902; **2**, 1906; **3R**, 1919)

Bush, Milton T., Ph.D. Vanderbilt Univ. School of Medicine, Nashville, Tenn. *Assoc. Prof. of Pharmacology.* (**3**, 1938)

Bussard, Alain, Ph.D. Pasteur Inst., Paris, France. (**6**, 1952)

Butler, G. C., Ph.D. Univ. of Toronto, Dept. of Biochemistry, Toronto, Ont., Canada. *Assoc. Prof.* (**2**, 1949)

Butler, Thomas C., M.D. Univ. of North Carolina School of Medicine, Chapel Hill. *Prof. of Pharmacology.* (**3**, 1938)

Butt, Hugh R., M.D. Mayo Clinic, 102 Second Ave., S.W., Rochester, Minn. *Consultant in Medicine; Asst. Prof. of Medicine, Mayo Foundation.* (**5**, 1942)

Butts, Joseph S., Ph.D. Oregon State College, Corvallis. *Prof. of Biochemistry and Head of Agricultural Chemistry.* (**2**, 1936; **5**, 1936)

Byers, Sanford O., Ph.D. 2200 Post St., San Francisco 15, Calif. *Research Biochemist, Harold Brunn Inst. for Cardiovascular Research, Mount Zion Hospital.* (**1**, 1949)

Cahen, Raymond L., Ph.D., M.D. Maltbie Chemical Co., Research Labs., P.O. Box 270, Morristown, N. J. *Dir. of Pharmacological Research.* (**3**, 1949)

Cahill, William M., Ph.D., M.D. S. California Edison Co., 501 S. Marengo, Alhambra. *Physician and Surgeon, Med. Dept.* (**2**, 1940)

Cajori, Florian A., Ph.D. Univ. of Colorado Med. School, Denver 7. *Assoc. Prof. of Biochemistry.* (**2**, 1922; **5**, 1933)

Caldwell, Mary L., Ph.D. Columbia Univ., New York City. *Prof. of Chemistry.* (**2**, 1924; **5**, 1933)

Calesnick, Benjamin, M.D. Hahnemann Med.

College, Dept. of Pharmacology, Philadelphia 2, Pa. *Assoc. in Pharmacology.* (**3,** 1951)

Callison, Elizabeth C., M.S. U. S. Dept. of Agriculture, Agricultural Research Station, Food and Nutrition Div., Bureau of Human Nutrition, Beltsville Md. *Nutrition Physiologist.* (**5,** 1949)

Calloway, Nathaniel Oglesby, Ph.D., M.D. Percy Jones Army Hospital, Battle Creek, Mich. *On leave from Univ. of Illinois College of Medicine.* (**3,** 1945)

Calvin, D. Bailey, Ph.D. Univ. of Texas Med. Branch, Galveston. *Prof. of Biological Chemistry and Dean of Student and Curricular Affairs.* (**1,** 1934; **2,** 1939)

Calvin, Melvin, Ph.D. Univ. of California, Berkeley 4. *Prof. of Chemistry.* (**2,** 1949)

Caminopetros, John, M.D. Hellenic Pasteur Inst., 103 Queen Sophie Ave., Athens, Greece. *Chief of the Service of Exper. Medicine.* (**6,** 1946)

Camp, Walter J. R., M.D., Ph.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago, Ill. *Prof. of Pharmacology and Toxicology; State Toxicologist.* (**3,** 1926)

Campbell, Berry, Ph.D. Univ. of Minnesota, Minneapolis 14. *Assoc. Prof. of Anatomy.* (**1,** 1945)

Campbell, Dan H., Ph.D. California Inst. of Technology, Pasadena. *Assoc. Prof. of Chemistry.* (**6,** 1938)

Campbell, H. Louise, Ph.D. 900 Windsor Ave., Windsor, Conn. (**5R,** 1933)

Campbell, J. Alexander, Ph.D. Dept. of Natl. Health and Welfare, Food and Drug Div., Ottawa, Ont., Canada. *Chief, Vitamin and Nutrition Lab.* (**5,** 1950)

Campbell, James, Ph.D. Univ. of Toronto, Toronto, Ont., Canada. *Assoc. Prof. of Physiology; Lt. Comdr., (S.B.) R.C.N.V.R.* (**1,** 1943)

Campbell, Walter Ruggles, M.D. 334 St. Clair Ave. East, Toronto, Canada. *Assoc. Prof. of Medicine, Univ. of Toronto.* (**2,** 1922)

Cannan, R. Keith, D.Sc. Natl. Research Council, 2101 Constitution Ave., Washington, D. C. *Vice-Chairman, Div. of Med. Sciences.* (**2,** 1931)

Cannon, Paul R., M.D., Ph.D. Univ. of Chicago, Chicago, Ill. *Prof. of Pathology.* (**4,** 1930; **6,** 1929)

Cantarow, Abraham, M.D. Jefferson Med. College, Philadelphia 7, Pa. *Prof. of Biochemistry.* (**1,** 1932; **3,** 1935)

Cantoni, G. L., M.D. Western Reserve Univ. School of Medicine, Dept. of Pharmacology, Cleveland 6, Ohio. *Assoc. Prof.* (**3,** 1945)

Canzanelli, Attilio, M.D. Tufts College Med. School, 136 Harrison Ave., Boston, Mass. *Prof. of Exper. Physiology.* (**1,** 1934)

Capps, Robert T., Ph.D. Service Memorial Inst., Dept. of Pharmacology, 426 N. Charter St., Madison 6, Wisc. *Research Fellow, American Heart Association.* (**3,** 1951)

Carlson, A.J., Ph.D., M. D. Univ. of Chicago, Hull Physiological Lab., Chicago, Ill. *Prof. Emeritus of Physiology.* (**1,** 1904; **5R,** 1933)

Carlson, Loren D., Ph.D. Univ. of Washington School of Medicine, Dept. of Physiology and Biophysics, Seattle 5. (**1,** 1945)

Carmichael, Emmett B., Ph.D., Univ. of Alabama Med. College, Dept. of Biochemistry, Birmingham 5. *Prof.* (**1,** 1931; **2,** 1946)

Carmichael, Leonard, Ph.D. Sc.D. Tufts College, Medford, Mass. *Pres.; Dir. of Research Lab. of Sensory Psychology and Physiology.* (**1,** 1937)

Carnes, William H., M.D. 2398 Sacramento St., San Francisco 15, Calif. (**4,** 1951)

Carpenter, Frederick H., Ph.D. Univ. of California, Dept. of Biochemistry, Berkeley 4. *Asst. Prof.* (**2,** 1949)

Carpenter, Thorne M., Ph.D. 142 Birch Tree Drive, Westwood, Mass. (**1R,** 1915; **2,** 1909; **5R,** 1935)

Carr, C. Jelleff, Ph.D. Univ. of Maryland School of Medicine, Baltimore. *Assoc. Prof. of Pharmacology.* (**3,** 1940)

Carr, Jesse L., M.D. San Francisco Hospital, San Francisco, Calif. (**4,** 1940)

Carrera, Guillermo M., M.D. Tulane Univ. School of Medicine, 1430 Tulane Ave., New Orleans 12, La. *Asst. Prof. of Pathology and Tropical Medicine.* (**4,** 1951)

Carruthers, Christopher, Ph.D. Washington Univ. School of Medicine, Dept. of Anatomy, 4580 Scott Ave., St. Louis 10, Mo. *Research Assoc.* (**2,** 1948)

Carson, Stanley F., Ph.D. Oak Ridge Natl. Lab., Biology Div., P. O. Box P, Oak Ridge, Tenn. *Principal Biochemist.* (**2,** 1952)

Carter, Charles E., M.D. Western Reserve Univ. School of Medicine, Cleveland 6, Ohio. *Asst. Prof. of Medicine.* (**2,** 1950)

Carter, Herbert E., Ph.D. Univ. of Illinois, 401 E. Chemistry Bldg., Urbana. *Prof. of Biochemistry.* (**2,** 1937; **5,** 1941)

Carter, John R., M.D. State Univ. of Iowa College of Medicine, Med. Lab. Bldg., Iowa City. *Assoc. Prof. of Pathology.* (**4,** 1951)

Cartland, George F., Ph.D. The Upjohn Co., Research Dept., Kalamazoo, Mich. *Asst. Dir. of Research.* (**2,** 1936)

Cartwright, G. E., M.D. Univ. of Utah College of Medicine, Dept. of Internal Medicine, Salt Lake City. *Asst. Prof. of Medicine.* (**5,** 1951)

Cary, Charles A., S.B. 141 N.W. 100th Terrace, Miami Shores, Fla. (**2,** 1920)

Casas, Carmen B., Ph.D. School of Tropical Medicine, The Med. School, San Juan, Puerto Rico. *Assoc. Prof. of Physiology.* (**1,** 1952)

Casey, Albert Eugene, M.D. 1907 Wellington Rd., Birmingham 9, Ala. *Pathologist, Baptist Hospital; Assoc. Prof. of Pathology, Med. College of Alabama.* (**4,** 1933)

Cash, James Robert, M.D. Univ. Hospital, Charlottesville, Va. *Prof. of Pathology, Univ. of Virginia.* (**4,** 1924)

Cassidy, Harold G., Ph.D. Yale Univ., Sterling Chemistry Lab., New Haven, Conn. *Assoc. Prof. in Chemistry.* (**2,** 1949)

Castle, Edward S., Ph.D. Harvard Univ., Biological Labs., Divinity Ave., Cambridge, Mass. *Assoc. Prof. of General Physiology.* (**1,** 1934)

Castle, William B., M.D. Boston City Hospital, Boston, Mass. *Prof. of Medicine, Harvard Univ.; Dir. of Thorndike Memorial Lab.* (**4,** 1942)

Catchpole, Hubert Ralph, Ph.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago 12, Ill. *Research Assoc. in Pathology.* (**1,** 1941)

Cathcart, E. P., M.D., D.Sc. Univ. of Glasgow, Glasgow, Scotland. *Dean of Univ.* (**5R,** 1935)

Catron, Lloyd, M.D. City Hospital, Akron, Ohio. *Pathologist.* (**4,** 1939)

Cattell, McKeen, Ph. D., M. D. Cornell Univ. Med. College, 1300 York Ave., New York City. *Prof. of Pharmacology.* (**1,** 1923; **3,** 1924)

Cavelti, Philip A., M.D. 520 Cowper St., Palo Alto, Calif. (**6,** 1947)

Cazort, Ralph Jerry, M.D., M.S. Meharry Med. College, Nashville 8, Tenn. *Assoc. Prof. of Pharmacology.* (**3,** 1951)

Cederquist, Dena C., Ph.D. Michigan State College, School of Home Economics, East Lansing. *Assoc. Prof. (Research) of Foods and Nutrition.* (**5,** 1949)

Ceithaml, Joseph J., Ph.D. Univ. of Chicago, 947 E. 58th St., Chicago 37, Ill. *Assoc. Prof. of Biochemistry.* (**2,** 1950)

Cerecedo, Leopold R., Ph.D. Fordham Univ., New York City. *Prof. of Biochemistry.* (**2,** 1931; **5,** 1945)

Chadwick, Leigh Edward, Ph.D. Med. Labs., Army Chemical Center, Md. (**1,** 1944)

Chaikoff, I. L., Ph.D., M.D. Univ. of California, Berkeley. *Prof. of Physiology.* (**1,** 1932)

Chalkley, Harold W., Ph.D. USPHS, Natl. Insts. of Health, Bethesda, Md. *Sr. Physiologist.* (**1,** 1932)

Chamberlain, W. Edward, M.D. Temple Univ. Med. School, Philadelphia, Pa. *Prof. of Radiology.* (**1,** 1948)

Chambers, Alfred H., Ph.D. Univ. of Vermont School of Medicine, Dept. of Physiology, Burlington. (**1,** 1946)

Chambers, Leslie Addison, Ph.D. USPHS Environmental Health Center, 1014 Broadway, Cincinnati 2, Ohio. *Scientist Dir.* (**1,** 1940; **6,** 1948)

Chambers, Robert, Ph.D. New York Univ., Washington Sq., New York City. *Research Prof. Emeritus of Biology, N. Y. U.* (**1R,** 1932)

Chambers, William H., Ph.D. Med. Labs., Army Chemical Center, Md. *Chief of Toxicology Branch.* (**1,** 1924; **5,** 1933)

Chambers, W. W., Ph.D. Univ. of Pennsylvania, School of Medicine, Dept. of Anatomy, Philadelphia 4. *Asst. Prof.* (**1,** 1950)

Chance, Britton, Ph.D. Univ. of Pennsylvania, Johnson Fndn., 36th and Spruce Sts., Philadelphia 4. *Prof. and Dir. of Johnson Foundation.* (**1,** 1950; **2,** 1950)

Chandler, Joseph P., Ph.D. Univ. of Michigan Med. School, Room G455, Univ. Hosp., Ann Arbor. *Assoc. Prof. of Biological Chemistry; Biochemist, Univ. Hosp.* (**2,** 1944; **5,** 1944)

Chang, Min Cheuh, Ph.D. Worcester Foundation, Shrewsbury, Mass. *Assoc. Fellow.* (**1,** 1946)

Changus, George W., M.D. Univ. of Tennessee, Inst. of Pathology, 850 Madison Ave., Memphis. *Asst. Prof. of Pathology.* (**4,** 1951)

Chanutin, Alfred, Ph.D. Univ. of Virginia, Biochemical Lab., Charlottesville. *Chairman, Biochemistry Dept.; Prof. of Biochemistry, Univ. of Virginia.* (**2,** 1925)

Chapanis, Alphonse, Ph.D. Johns Hopkins Univ., Inst. for Cooperative Research, 1315 St. Paul St., Baltimore, Md. *Asst. Prof. of Psychology.* (**1,** 1948)

Chargaff, Erwin, Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Prof. of Biochemistry.* (**2,** 1935)

Charipper, Harry Adolph, Ph.D. Washington Square College of Arts and Sciences, 100 Washington Square E., New York City. *Prof. and Chairman of Dept. of Biology.* (**1,** 1941)

Chase, Aurin M., Ph.D. Princeton Univ., Dept. of Biology, Princeton, N. J. *Assoc. Prof.* (**1,** 1939)

Chase, Harold F., M.D. Univ. of Virginia Hospital, Charlottesville. *Dir. and Assoc. Prof. of Anesthesiology.* (**3,** 1944)

Chase, Merrill W., Ph.D. Rockefeller Inst., 66th St. and York Ave., New York City. *Member of Staff.* (**6,** 1938)

Chasis, Herbert, M.D., Med. Sc.D. 44 E. 67th St., New York City. *Asst. Prof. of Medicine, New York Univ. College of Medicine.* (**1,** 1941)

Chatfield, Charlotte, B.S. Viale delle Terme di Caracalla, Rome, Italy. *Nutrition Officer.* (**5,** 1941)

Chatfield, Paul Oakes, M.D. Harvard Med. School, Dept. of Physiology, 25 Shattuck St., Boston 15, Mass. *Associate.* (**1,** 1950)

Chatterjee, Hernendra Nath, M.D. 9 Romes Mitter Rd., Bhowanipeir, Calcutta, India. *Professor.* (**6,** 1948)

Cheever, Francis Sargent, M.D. Univ. of Pitts-

burgh Grad. School of Public Health, Pittsburgh 13, Pa. *Prof. of Microbiology.* (**6,** 1950)

Cheldelin, Vernon H., Ph.D. Oregon State College, Corvallis. *Prof. of Chemistry.* (**2,** 1947; **5,** 1946)

Chen, Graham, Sc.D., M.D. Parke Davis and Co., Detroit, Mich. (**3,** 1944)

Chen, James Yu-ping, M.D. Schenley Labs., Inc., Dept. of Pharmacology, Lawrenceburg, Ind. *Head of Dept.* (**3,** 1951)

Chen, K. K., Ph.D., M.D. Lilly Research Labs., Indianapolis, Ind. *Dir. of Pharmacological Research; Prof. of Pharmacology, Indiana Univ. School of Medicine.* (**1,** 1929; **3,** 1942)

Cheney, Ralph H., Sc.D. Brooklyn College, Biology Dept., Bedford Ave. and Ave. H, Brooklyn 10, N. Y. *Professor.* (**3,** 1934)

Chenoweth, Maynard Burton, M.D. Univ. of Michigan Med. School, Dept. of Pharmacology, Ann Arbor. *Assoc. Prof. of Pharmacology.* (**3,** 1945)

Chesley, Leon C., Ph.D. Margaret Hague Maternity Hospital, 88 Clifton Place, Jersey City 4, N. J. *Chief Chemist.* (**1,** 1949)

Chesney, Alan M., M.D. Johns Hopkins Hospital, Baltimore, Md. *Dean of Johns Hopkins Med. School; Assoc. Prof. of Medicine.* (**4,** 1925)

Child, Charles M., Ph.D. Stanford Univ., Stanford, Calif. *Prof. Emeritus of Zoology, Stanford Univ.* (**1R,** 1923)

Child, George P., Ph.D., M.D. 242 Sand Lane, Staten Island 5, N. Y. *Marine Hospital, USPHS.* (**3,** 1949)

Chin, Yin-Ch'ang, Ph.D. 1268 Sixth Ave., San Francisco, Calif. *Research Fellow, Univ. of California; Asst. Prof., Peking Union Med. College.* (**3,** 1950)

Chinard, Francis P., M.D. Johns Hopkins Univ. School of Medicine, 710 N. Washington St., Baltimore 5, Md. *Asst. Prof. of Physiological Chemistry and Medicine.* (**2,** 1951)

Chinn, Herman I., Ph.D. School of Aviation Medicine, Randolph Field, Tex. *Chief, Dept. of Pharmacology and Biochemistry.* (**1,** 1950; **3,** 1951)

Chopra, R. N., M.D., Sc.D. School of Tropical Medicine, Calcutta, India. *Dir. and Prof. of Pharmacology.* (**3H,** 1938)

Choucroun, Nine. Dept. of Public Health and Preventive Medicine, 1300 York Ave., New York City 22. *Research Assoc., Cornell Med. College.* (**6,** 1949)

Chow, Bacon F., Ph.D. Johns Hopkins Univ. School of Hygiene, 615 N. Wolfe St., Baltimore 14, Md. *Assoc. Prof. of Biochemistry.* (**2,** 1940; **5,** 1948; **6,** 1944)

Christensen, Halvor N., Ph.D. Tufts College Med. School, Boston, Mass. *Prof. and Head of Dept. of Biochemistry.* (**2,** 1947)

Christensen, L. Royal, Ph.D. New York Univ. College of Medicine, Dept. of Microbiology, 477 First Ave., New York City. *Asst. Prof.* (**6,** 1942)

Christman, Adam A., Ph.D. Univ. of Michigan Med. School, Ann Arbor. *Prof. of Biological Chemistry.* (**2,** 1929)

Chu, Wei-chang, M.D. 546 W. 124th St., Apt. 53, New York City. (**3,** 1945)

Chusid, Joseph G., M.D. St. Vincent's Hospital, Neurological Div., 145 W. 11th St., New York City 11. *Attending Neurologist.* (**1,** 1951)

Cizek, Louis Joseph, M.D. Columbia Univ. College of Physicians & Surgeons, Dept. of Physiology, 630 W. 168th St., New York City 32. *Asst. Prof.* (**1,** 1951)

Clark, Ada R., Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. in Bacteriology, Teaching and Research.* (**6,** 1936)

Clark, Byron B., Ph.D. Tufts College Med. School, 136 Harrison Ave., Boston 15, Mass. *Prof. of Pharmacology.* (**3,** 1940)

Clark, Eliot R., M.D. Univ. of Pennsylvania, Philadelphia. *Prof. of Anatomy.* (**1R,** 1919)

Clark, Ernest D., Ph.D. 826 Skinner Bldg., Seattle 1, Wash. *Dir. of the Labs., Northwest Branch, Natl. Canners' Assoc.* (**2,** 1912)

Clark, George, Ph.D. Chicago Med. School, Dept. of Anatomy, 710 S. Wolcott Ave., Chicago 12, Ill. *Assoc. Prof. of Neuroanatomy.* (**1,** 1943)

Clark, Guy W., Ph.D. R.F.D. 5330 Wild Horse Valley Rd., Napa, Calif. *Technical Dir., Lederle Labs., Div. of American Cyanamid Co.* (**2,** 1922)

Clark, Janet Howell, Ph.D. 708 Cedarcroft Rd., Baltimore, Md. (**1,** 1922)

Clark, Paul F., Ph.D. Univ. of Wisconsin Med. School, Madison. *Prof. of Med. Microbiology.* (**6,** 1928)

Clark, William G., Ph.D. Gen. Med. Research, V. A. Center, Bldg. 114, Wilshire and Sawtelle Blvds., Los Angeles 25, Calif. *Chief, Pharmacology-Physiology Section.* (**1,** 1942; **3,** 1949)

Clark, William Mansfield, Ph.D. Johns Hopkins Univ., Dept. of Chemistry, Baltimore, Md. *DeLamar Prof. Emeritus of Physiological Chemistry; Research Prof. of Chemistry.* (**2,** 1920)

Clarke, Donald A., Ph.D. Sloan-Kettering Inst. for Cancer Research, 444 East 68th St., New York City 21. *Assoc. Instr., Cornell Univ.* (**3,** 1952)

Clarke, Hans Thacher, D.Sc. (London). Columbia Univ. College of Physicians & Surgeons, New York City 32. *Prof. of Biochemistry.* (**2,** 1929)

Clarke, Robert W. Army Med. Service Grad. School, Army Med. Center, Washington 12, D. C. (**1,** 1936)

Clausen, Samuel Wolcott, M.D. Univ. of Rochester School of Medicine, Rochester, N. Y. *Prof. of Pediatrics.* (**2,** 1922)

Cleghorn, Robert Allen, M.D., D.Sc. McGill

Univ., Dept. of Psychiatry, Montreal, Quebec, Canada. (**1**, 1937)

Clowes, George Henry Alexander, Ph.D. Eli Lilly & Co., Indianapolis 6, Ind. *Dir. of Research Emeritus.* (**2**, 1914; **6**, 1919)

Coburn, Alvin F., M.D. Rheumatic Fever Research Inst., Chicago, Ill. *Director.* (**6**, 1948)

Coca, Arthur F., M.D. 425 Grant Ave., Oradell, N. J. *Med. Dir.* (**4R**, 1924; **6H**, 1916)

Cochran, Kenneth W., Ph.D. Univ. of Chicago, Dept. of Pharmacology, Chicago 37, Ill. *Research Assoc.* (**3**, 1952)

Code, Charles F., Ph.D., M.D. Mayo Foundation, Rochester, Minn. *Prof. of Physiology.* (**1**, 1939; **3**, 1950)

Coffey, Julia M., A.B. Div. of Labs. and Research, New York State Dept. of Health, Albany. *Assoc. Bacteriologist.* (**6**, 1937)

Coghill, Robert D., Ph.D. Abbott Labs., N. Chicago, Ill. *Dir. of Research.* (**2**, 1932)

Cohen, Barnett, Ph.D. Johns Hopkins Univ. School of Medicine, 710 N. Washington St., Baltimore 5, Md. *Assoc. Prof. of Physiological Chemistry.* (**2**, 1935)

Cohen, Philip P., Ph.D., M.D. Univ. of Wisconsin, Service Memorial Inst., Madison. *Prof. of Physiological Chemistry.* (**2**, 1941)

Cohen, Saul L., Ph.D. Univ. of Minnesota, 207 Millard Hall. Minneapolis. *Assoc. Prof. of Physiological Chemistry.* (**2**, 1948)

Cohen, Seymour S., Ph.D. Children's Hospital and Univ. of Pennsylvania School of Medicine, Philadelphia, Pa. *Assoc. Prof. of Physiological Chemistry and Pediatrics.* (**2**, 1946)

Cohen, Sophia M., B.S. New York State Dept. of Health, Div. of Labs. and Research, Albany. *Sr. Bacteriologist.* (**6**, 1938)

Cohn, Alfred E., M.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Member.* (**1R**, 1911; **3**, 1913)

Cohn, Clarence, M.D. Michael Reese Hospital, Med. Research Inst., Chicago, Ill. *Dir. of Dept. of Biochemistry.* (**1**, 1948)

Cohn, Edwin J., Ph.D. 183 Brattle St., Cambridge, Mass. *Prof. of Biological Chemistry, Harvard Med. School; Univ. Prof., Harvard Univ.* (**1**, 1919; **2**, 1919)

Cohn, Melvin, Pasteur Institute, Paris, France. (**6**, 1951)

Cohn, Mildred, Ph.D. Washington Univ. School of Medicine, Euclid Ave. and Kingshighway, St. Louis 4, Mo. *Research Assoc., Biological Chemistry.* (**2**, 1949)

Cohn, Waldo E., Ph.D. Oak Ridge Natl. Lab., Biology Div., Oak Ridge, Tenn. *Biochemist.* (**2**, 1944)

Cole, Harold H., Ph.D. Univ. of California, College of Agriculture, Div. of Animal Husbandry, Davis. *Professor.* (**1**, 1947)

Cole, Harold N., Ph.B., M.D. 1352 Hanna Bldg., Cleveland, Ohio. *Clin. Prof. of Dermatology and Syphilology, Western Reserve Univ.* (**3**, 1925)

Cole, Kenneth S., Ph.D. Naval Med. Research Inst., Bethesda 14, Md. *Technical Dir.* (**1**, 1934)

Cole, Rufus, M.D., D.Sc. Mount Kisco, N. Y. *Member Emeritus, Rockefeller Inst. for Med. Research.* (**4R**, 1924; **6R**, 1917)

Cole, Versa V., Ph.D., M.D. Med. Labs., Gassing Branch, Army Chemical Center, Md. *Pharmacologist-Toxicologist.* (**3**, 1941)

Colfer, Harry F., M.D., Ph.D. 9 Kempshall Ter., Fanwood, N. J. *Research Physician, Merck & Co., Rahway; Asst. Physician, Presbyterian Hospital, N. Y. C.* (**1**, 1950)

Collett, Mary Elizabeth, Ph.D. Western Reserve Univ., Mather College, Cleveland, Ohio. *Assoc. Prof. of Biology.* (**1**, 1921)

Collier, H. Bruce, Ph.D. Univ. of Alberta, Dept. of Biochemistry, Edmonton, Alta., Canada. *Prof. and Head of Dept.* (**2**, 1944)

Collings, William Doyne, Ph.D. Michigan State College, Dept. of Physiology, East Lansing. (**1**, 1944)

Collins, Dean A., Ph.D., M.D. Temple Univ. School of Medicine, 3400 N. Broad St., Philadelphia 40, Pa. *Prof. of Pharmacology.* (**1**, 1938)

Collins, Russell J., A.M., M.D. St. John, New Brunswick, Canada. *Med. Superintendent of St. John Tuberculosis Hospital.* (**3**, 1915)

Collip, J. B., Ph.D. M.D. Univ. of Western Ontario, R.R. 3, London, Ontario, Canada. *Dean of Medicine and Prof. of Med. Research.* (**1**, 1920; **2**, 1920)

Colowick, Sidney P., Ph.D. Johns Hopkins Univ., McCollum Pratt Inst., Baltimore 18, Md. *Assoc. Prof. of Biology* (**2**, 1944)

Coman, Dale R., M.D. Univ. of Pennsylvania School of Medicine, McManes Lab. of Pathology, Philadelphia. *Prof. of Exper. Pathology.* (**4**, 1939)

Comar, Cyril Lewis, Ph.D. Univ. of Tennessee, Atomic Energy Commission Agricultural Research Program, Oak Ridge. *Lab. Dir., Research Coordinator.* (**5**, 1951)

Comroe, Julius H., Jr., M.D. Univ. of Pennsylvania Grad. School of Medicine, Philadelphia. *Prof. of Physiology and Pharmacology.* (**1**, 1943; **3**, 1939)

Conant, James B., Ph.D. Harvard Univ., 5 Univ. Hall, Cambridge, Mass. *President.* (**2**, 1932)

Conklin, Ruth E., Ph.D. Vassar College, Poughkeepsie, N. Y. *Prof. of Physiology.* (**1**, 1940)

Conn, Eric E., Ph.D. Univ. of California, Div. of Plant Nutrition, Berkeley 4. (**2**, 1952)

Conn, Jerome W., M.D. Univ. of Michigan Med. School, Ann Arbor. *Assoc. Prof. of Internal Med.* (**5**, 1942)

Consolazio, William V., B. S. National Science Foundation, Washington 25, D. C. *Biochemist, Biological Sciences Div.* (**2,** 1949)

Cook, Donald Hunter, Ph.D. Univ. of Miami, Coral Gables 34, Fla. *Prof. of Chemistry.* (**2,** 1929)

Cook, Donald L., Ph.D. G. D. Searle and Co., P. O. Box 5110, Chicago 80, Ill. *Pharmacologist.* (**3,** 1952)

Cooke, Robert A., A.M., M.D. 60 E. 58th St., New York City. *Dir. of Dept. of Allergy, Roosevelt Hospital.* (**6,** 1920)

Coolidge, Thomas B., M.D., Ph.D. Univ. of Chicago, Abbot Hall, Chicago 37, Ill. *Assoc. Prof., Dept. of Biochemistry and Walter G. Zoller Memorial Dental Clinic.* (**2,** 1942)

Coon, Julius M., Ph.D., M.D. Univ. of Chicago, Chicago 37, Ill. *Assoc. Prof. of Pharmacology; Dir. of Toxicity Lab.* (**3,** 1941)

Coon, Minor J., Ph.D. N. Y. Univ.-Bellevue Med. Center, Dept. of Pharmacology, 477 First Ave., New York City 16. *Asst. Prof., Univ. of Pennsylvania.* (**2,** 1952)

Coons, Albert H., M.D. Harvard Univ., 25 Shattuck St., Boston 15, Mass. *Assoc. in Bacteriology and Immunology.* (**6,** 1950)

Coons, Callie Mae, Ph.D. U. S. Dept. of Agriculture, Bureau of Human Nutrition and Home Economics, Washington, D. C. *Asst. Chief.* (**5,** 1933)

Cooper, Merlin L., M.D. Children's Hospital Research Foundation, Elland Ave. and Bethesda, Cincinnati 29, Ohio. *Assoc. Prof. of Bacteriology; Asst. Prof. of Pediatrics, Univ. of Cincinnati College of Medicine.* (**6,** 1949)

Cooperman, Jack M., Ph.D. Hoffman-LaRoche Inc., Nutley 10, N. J. *Sr. Research Biochemist.* (**5,** 1952)

Copeland, D. Eugene, Ph.D. 1027 N. Manchester St., Arlington 5, Va. *Assoc. Prof., Brown Univ.; on leave to Office of the Surgeon General, USAF Hqs., Washington, D. C.* (**1,** 1951)

Copley, Alfred Lewin, M.D. New York Univ., Dept. of Biology, Lab. of Cellular Physiology, Washington Square, New York City 3. *Research Assoc. in Medicine; Asst. Clin. Prof., New York Med. College.* (**1,** 1944)

Copp, Douglas Harold, M.D., Ph.D. Univ. of British Columbia, Dept. of Physiology, Vancouver, B.C., Canada. *Prof.* (**1,** 1951)

Corbin, Kendall B., M.D. 919 8th St., S.W., Rochester, Minn. *Consultant in Neurology, Mayo Clinic; Prof. of Neuroanatomy, Mayo Foundation.* (**1,** 1941)

Corcoran, Arthur Curtis, C.M., M.D. Cleveland Clinic Foundation, Cleveland 6, Ohio. (**1,** 1940)

Corey, Edward Lyman, Ph.D. Univ. of Virginia School of Medicine, Charlottesville. *Prof. of Physiology.* (**1,** 1931)

Cori, Carl F., M.D. Washington Univ. School of Medicine, Kingshighway and Euclid Ave., St. Louis 10, Mo. *Prof. of Biochemistry.* (**2,** 1925; **3,** 1934)

Cori, Gerty T., M.D. Washington Univ. School of Medicine, St. Louis 10, Mo. *Prof. of Biochemistry.* (**2,** 1927; **3,** 1934)

Corley, Ralph Conner, Ph.D. Purdue Univ., Dept of Chemistry, Lafayette, Ind. *Prof. of Biochemistry.* (**2,** 1927)

Cornatzer, W. E., Ph.D., M.D. Univ. of North Dakota Med. School, Dept. of Biochemistry, Grand Forks. *Prof. and Head of Dept.* (**2,** 1950)

Corper, Harry J., M.D., Ph.D. 1295 Clermont St., Denver 7, Colo. *Dir. of Research, Natl. Jewish Hospital and Univ. of Colorado School of Medicine.* (**2,** 1912)

Corson, Samuel A., Ph.D., Kirksville College of Osteopathy and Surgery, Kirksville, Mo. (**1,** 1943)

Cotts, Gerhard K., M.D. 1100 Church St., Lynchburg, Va. (**3,** 1937)

Co Tui, C., M.D. 15 E. 62nd St., New York City 21. *Dir., Biologic Research, Creadmore Inst. for Psychobiologic Studies.* (**3,** 1931)

Couch, James Russell, Ph.D. Texas A. & M. College, College Station. *Prof. of Poultry Husbandry, Biochemistry and Nutrition.* (**5,** 1950)

Cournand, Andre Frederic, M.D. Chest Service, Bellevue Hospital, C. D. Building, 1st Ave. at 28th St., New York City. *Assoc. Prof. of Medicine, College of Physicians and Surgeons, Columbia Univ.* (**1,** 1944)

Cowen, David, M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Asst. Prof. of Neuropathology.* (**4,** 1951)

Cowgill, George Raymond, Ph.D. Yale Univ., Nutrition Lab., 333 Cedar St., New Haven 11, Conn. *Prof. of Nutrition, Dept. of Physiology.* (**1,** 1923; **2,** 1922; **5,** 1933)

Cox, Alvin J., Jr., M.D. Stanford Univ. School of Medicine, 2398 Sacramento St., San Francisco 15, Calif. *Prof. of Pathology.* (**4,** 1949)

Cox, Gerald J., Ph.D. Univ. of Pittsburgh School of Dentistry, Pittsburgh 13, Pa. *Prof. of Dental Research.* (**2,** 1930; **5,** 1935)

Cox, Herald R., Sc.D. Lederle Labs. Div., American Cyanamid Co., Pearl River, N. Y. *Dir., Viral and Rickettsial Research.* (**6,** 1946)

Cox, Warren M., Jr., Ph.D. Mead Johnson & Co., Evansville, Ind. *Dir. of Research.* (**2,** 1935; **5,** 1945)

Craig, Francis Northrop, Ph.D. Med. Labs., Army Chemical Center, Md. *Chief, Applied Physiology Section.* (**1,** 1946)

Craig, L. C., Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Assoc. Member.* (**2,** 1938)

Crampton, E. W., Ph.D. McGill Univ., Macdonald

College, Montreal, Quebec, Canada. *Prof. of Nutrition.* (**5,** 1940)

Crandall, Dana I., Ph.D. Univ. of Cincinnati, College of Medicine, Cincinnati 19, Ohio. *Assoc. Prof. of Biological Chemistry.* (**2,** 1951)

Crandall, Lathan A., Jr., M.D., Ph.D. Miles Labs., Inc., Elkhart, Ind. (**1,** 1930)

Cranston, Elizabeth M., Ph.D. Univ. of Minnesota Med. School, Dept. of Pharmacology, Minneapolis 14. *Asst. Prof.* (**3,** 1946)

Cravens, W. W., Ph.D. Univ. of Wisconsin, Poultry Dept., Madison. *Assoc. Prof. of Poultry Husbandry.* (**5,** 1947)

Craver, Bradford N., Ph.D., M.D. Johnson & Johnson, Research Foundation, New Brunswick, N. J. *Dir. of Pharmacology.* (**3,** 1946)

Crawford, Madeleine Field, Ph.D. 9 High Rock St., Needham, Mass. *Assoc. in Physiology, Harvard School of Public Health.* (**1,** 1933)

Crescitelli, Frederick, Ph.D. Univ. of California, Dept. of Zoology, Los Angeles. *Physiologist.* (**1,** 1946)

Cretcher, Leonard H., Ph.D. Univ. of Pittsburgh, Mellon Inst. of Industrial Research, Pittsburgh Pa. *Asst. Dir. and Head of Dept. of Research in Pure Chemistry.* (**2,** 1930).

Crider, Joseph O., M.D. Jefferson Med. College, Philadelphia, Pa. *Prof. of Physiology.* (**1,** 1935)

Criep, Leo N., M.D. May Bldg., 5th and Liberty, Pittsburgh, Pa. *Assoc. Prof. of Medicine.* (**6,** 1951)

Crisler, George R., Ph.D., M.D. 157 E. New England Ave., Winter Park, Fla. (**1,** 1930)

Crismon, Jefferson Martineau, M.D. Stanford Univ., Calif. *Assoc. Prof. of Physiology.* (**1,** 1944)

Crittenden, Phoebe J., Ph.D. Goucher College, Dept. of Physiology and Hygiene, Towson 4, Md. *Prof. and Chairman of Dept. of Physiology.* (**1,** 1937; **3,** 1937)

Cromartie, William J., M.D. Univ. of North Carolina, School of Medicine, Dept. of Bacteriology, Chapel Hill. (**4,** 1951)

Cronheim, Georg E., Ph.D., S. E. Massengill Co., Fifth St., Bristol, Tenn. *Research Dir.* (**3,** 1951).

Crozier, William J., Ph.D. Harvard Univ., Biological Labs., Cambridge, Mass. *Prof. of General Physiology.* (**1,** 1928)

Crumpton, Charles W., M.D. Univ. of Wisconsin Med. School, Madison 6. *Asst. Prof. of Medicine.* (**3,** 1952)

Csaky, Tihamer Z., M.D. Univ. of North Carolina, School of Medicine, Dept. of Pharmacology, Chapel Hill. *Asst. Prof.* (**3,** 1952)

Csonka, F. A., Ph.D. U. S. Dept. of Agriculture, Bureau of Human Nutrition and Home Economics, Beltsville, Md. *Sr. Chemist.* (**2,** 1924)

Cullen, Stuart C., M.D. Univ. Hospitals, Iowa City, Iowa. *Asst. Prof. of Surgery-Anesthesia.* (**3,** 1944)

Culler, Elmer A., Ph.D. Univ. of Rochester, Rochester, N. Y. *Prof. of Psychology and Dir. of Lab.* (**1R,** 1936)

Cunha, Tony Joseph, Ph.D. Univ. of Florida, Dept. of Animal Husbandry, Gainesville. *Assoc. Prof.; Assoc. Animal Husbandman.* (**5,** 1950)

Cunningham, Raymond W., Ph.D. Lederle Labs., Inc., Pearl River, N. Y. *Director, Pharmacology Research.* (**3,** 1941)

Cunningham, Robert Sydney, M.D., Sc.D. Albany Med. College, Albany, N. Y. *Prof. of Anatomy and Dean.* (**1,** 1923)

Cureton, Thomas Kirk, Jr., Ph.D. Univ. of Illinois, School of Physical Education, Urbana. *Prof. of Physical Education.* (**1,** 1946)

Curnen, Edward C., M.D. Univ. of North Carolina, School of Medicine, Dept. of Pediatrics, Chapel Hill. *Prof. and Chairman of Dept.* (**6,** 1941)

Curtis, George Morris, Ph.D., M.D. Ohio State Univ., Kinsman Hall, Columbus. *Prof. of Surgery; Chairman, Dept. of Research Surgery.* (**1,** 1933; **4,** 1933)

Curtis, Howard J., Ph.D. Brookhaven Natl. Lab., Upton, L. I., N. Y. (**1,** 1940)

Curtis, Jack M., Ph.D. Food and Drug Admin., Federal Security Agency, Div. of Pharmacology, Washington 25, D. C. *Pharmacologist.* (**2,** 1951)

Cushing, John E., Jr., Ph.D. Univ. of California, Santa Barbara College, Santa Barbara. *Asst. Prof. of Bacteriology.* (**6,** 1952)

Cutting, Windsor C., M.D. Stanford Univ. School of Medicine, San Francisco, Calif. *Prof. of Pharmacology and Therapeutics.* (**3,** 1939)

Da Costa, Esther, Ph.D. U. S. Army Med. Nutrition Lab., 1849 W. Pershing Road, Chicago 9, Ill. *Physiologist.* (**5,** 1951)

Daft, Floyd Shelton, Ph.D. Natl. Insts. of Health, Inst. of Arthritis and Metabolic Diseases, Bethesda, Md. *Asst. Dir.* (**2,** 1949; **5,** 1941)

Daggs, Ray Gilbert, Ph.D. Army Med. Research Lab., Fort Knox, Ky. *Dir. of Research.* (**1,** 1935; **5,** 1933)

Dale, Sir Henry H., M.D., F.R.S. The Wellcome Trust, 28 Portman Sq., London W. 1, England. (**3H,** 1926)

Dalldorf, Gilbert, M.D. New York State Dept. of Health, Albany. *Dir., Div. of Labs. and Research.* (**4,** 1947; **6,** 1952)

Dalton, Albert J., Ph.D. Natl. Cancer Inst., Bethesda, Md. *Principal Cytologist.* (**4,** 1942)

Dam, Henrik, Ph.D. Polytechnic Inst., Dept. of Biochemistry and Nutrition, Østervoldgade 10 L, Copenhagen, K, Denmark. *Professor.* (**2,** 1944; **5,** 1943)

D'Amour, Fred E., Ph.D. 2311 S. Josephine St., Denver, Colo. *Assoc. Prof., Dept. of Zoology, Univ. of Denver.* (**1,** 1934)

D'Amour, Marie C., Ph.D., M.D. Olive View Sanatorium, Olive View, Calif. (**1,** 1934)

D'Angelo, Savino A., Ph.D. Jefferson Med. College, Dept. of Anatomy, 307 S. 11th St., Philadelphia, Pa. (**1,** 1947)

Daniel, Louise J., Ph.D. Cornell Univ., Savage Hall, Ithaca, N. Y. *Assoc. Prof. of Biochemistry and Nutrition.* (**2,** 1949)

Daniels, Amy L., Ph.D. 720 N. Van Buren St., Iowa City, Iowa. (**2R,** 1919; **5R,** 1933)

Danielson, Irvin S., Ph.D. Lederle Labs., Amer. Cyanamid Co., 18 Bogert Ave., Pearl River, N. Y. *Asst. Dir., Animal Industry Section.* (**2,** 1937)

Danowski, T. S., M.D. Univ. of Pittsburgh School of Medicine, Pittsburgh, Pa. *Renziehausen Prof. of Research Medicine.* (**1,** 1947)

Darby, William J., M.D., Ph.D. Vanderbilt Univ. School of Medicine, Nashville, Tenn. *Prof. of Biochemistry.* (**2,** 1949; **5,** 1945)

Darling, Robert Croly, M.D. 157 Glenwood Ave., Leonia, N. J. *Columbia Univ. College of Physicians and Surgeons, Dept. of Medicine, New York City 32.* (**1,** 1944)

Darrow, Chester W., Ph.D. Inst. for Juvenile Research, 907 S. Wolcott Ave., Chicago, Ill. *Psychophysiologist; Assoc. Prof. of Criminology, Univ. of Illinois College of Medicine.* (**1,** 1937)

Darrow, Daniel Cady, M.D. Yale Univ. School of Medicine, New Haven 4, Conn. *Prof. of Pediatrics.* (**2,** 1936)

Daubert, B. F., Ph.D. Koppers Co., Inc., Koppers Bldg., Pittsburgh, Pa. *Asst. Mgr., Lab. Sec.—Research.* (**2,** 1947)

Daum, Kate, Ph.D. Univ. Hospitals, Nutrition Dept., Iowa City, Iowa. *Dir.; Assoc. Prof., State Univ. College of Medicine.* (**5,** 1951)

Davenport, Fred. M., M.D., D.M.Sc. 1303 Gardner Ave., Ann Arbor, Mich. *Research Assoc.* (**6,** 1950)

Davenport, Horace Willard, Ph.D. Univ. of Utah, Dept. of Physiology, Salt Lake City 1. (**1,** 1942)

Davenport, Virginia D., Ph.D. Univ. of Utah College of Medicine, Salt Lake City. *Research Assoc. in Physiology.* (**1,** 1950)

David, Norman Austin, M.D. Univ. of Oregon Med. School, Portland. *Prof. of Pharmacology.* (**3,** 1934)

Davidsohn, Israel, M.D. Mount Sinai Hospital, 2750 W. 15th Pl., Chicago 8, Ill. *Pathologist and Dir. of Labs., Chicago Med. School; Prof. of Pathology and Chairman of Dept.* (**4,** 1939; **6,** 1929)

Davidson, Charles S., M.D. Boston City Hospital, Thorndike Memorial Lab., Boston 18, Mass. *Assoc. in Medicine, Harvard Med. School; Assoc. Dir., 2nd and 4th Med. Services, Boston City Hospital.* (**5,** 1949)

Davies, Dean F., Ph.D., M.D. Washington Univ. School of Medicine, Dept. of Internal Medicine, Hypertension Div., St. Louis 10, Mo. *Asst. Prof. of Biological Chemistry in Medicine.* (**1,** 1951)

Davies, Philip W., Ph.D. Johns Hopkins Univ., Biophysics Dept., Baltimore 18, Md. (**1,** 1948)

Davis, Bernard D., M.D. Cornell Univ. Med. College, New York City. *Research Assoc; Surgeon, USPHS.* (**6,** 1948)

Davis, Dorland J., M.D. Natl. Insts. of Health, Bethesda 14, Md. *Sr. Surgeon, USPHS.* (**6,** 1952)

Davis, George Kelso, Ph.D. Nutrition Lab., Animal Industry Dept., Agricultural Exper. Station, Gainesville, Fla. *Nutritional Technologist and Biochemist; Prof. of Nutrition, Univ. of Florida, Florida Agricultural Exper. Station.* (**5,** 1944)

Davis, Hallowell, M.D. Central Inst. for the Deaf, 818 S. Kingshighway, St. Louis 10, Mo. (**1,** 1925)

Davis, Harry A., M.D. College of Med. Evangelists, Dept of Surgery, 2007 Wilshire Blvd., Los Angeles 5, Calif. *Clin. Prof. of Surgery.* (**4,** 1944)

Davis, John Emerson, Ph.D. Univ. of Texas College of Pharmacy, Austin. *Prof. of Pharmacology.* (**1,** 1941; **3,** 1941)

Davis, M. Edward, M.D. Chicago Lying-In Hospital, 5841 Maryland Ave., Chicago 37, Ill. *Joseph Bolivar de Lee Prof. of Obstetrics, Univ. of Chicago.* (**3,** 1950)

Dawson, Charles R., Ph.D. Columbia Univ., Broadway and 116th St., New York City 27. *Assoc. Prof. of Chemistry.* (**2,** 1946)

Dawson, James Robertson, Jr., M.D. Univ. of Minnesota School of Medicine, Minneapolis 14. *Prof. of Pathology.* (**4,** 1940)

Dawson, Percy M., M.D. 97 E. Portola Ave., Los Altos, Calif. *Lecturer in Physiology, Retired, Stanford Univ.* (**1R,** 1900)

Day, Harry G., Sc.D. Indiana Univ., Dept. of Chemistry, Bloomington. *Professor.* (**2,** 1948; **5,** 1940)

Day, Paul L., Ph.D. Univ. of Arkansas School of Medicine, Little Rock. *Prof. of Biochemistry.* (**2,** 1934; **5,** 1933)

De, N. N., M.B. Indian Inst. of Science, P. O. Malleswaram, Bangalore, India. *Asst. Prof. of Pharmacology.* (**3,** 1948)

Dearborn, Earl H., Ph.D., M.D. Boston Univ., School of Medicine, 80 E. Concord St., Boston 18, Mass. *Prof. of Pharmacology.* (**3,** 1946)

de Beer, Edwin J., Ph.D. The Wellcome Research Labs., Tuckahoe, N. Y. *Acting Dir. of Research; Head, Dept. of Pharmacology.* (**3,** 1944)

de Bodo, Richard C., M.D. 477 First Ave., New York City. *Assoc. Prof. of Pharmacology, New York Univ. College of Medicine.* (**1,** 1932; **3,** 1931)

De Boer, Benjamin, Ph.D. Univ. of North Dakota School of Medicine, Grand Forks. *Prof. of Pharmacology.* (**1,** 1947; **3,** 1948)

DeBoer, Carl J., Ph.D. Ciba Pharmaceutical Products, Div. of Microbiology, Summit, N. J. *Sr. Virologist.* (**6,** 1951)

DeEds, Floyd, Ph.D. 344 Santa Ana Ave., San Francisco, Calif. *Principal Pharmacologist, Western Regional Research Lab., Albany, Calif.* (**2,** 1937; **3,** 1927)

Defandorf, James Holmes, Ph.D. 130 Hesketh St., Chevy Chase, Md. *Colonel, Chem. Corps., A.U.S.* (**3,** 1940)

de Gara, Paul F., M.D. 876 James St., Pelham Manor 65, N. Y. *Asst. Prof. of Clinical Pediatrics in Allergy, Cornell Univ. Med. College; Physician and Pediatrician to Out-Patients, New York Hospital.* (**6,** 1941)

DeGraff, Arthur C., M.D. New York Univ. College of Medicine, New York City. *Prof. of Therapeutics.* (**1,** 1950; **3,** 1937)

de Gutierrez-Mahoney, C. G., M.D. St. Vincent's Hospital, New York City. *Dir., Neurological Div. and Neurosurgeon-in-Chief.* (**1,** 1940; **4,** 1941)

Deichmann, William B., Ph.D. Albany Med. College, Albany, N. Y. *Prof. of Pharmacology.* (**3,** 1941)

Delgado, Jose M. R., M.D. Yale Univ., School of Medicine, New Haven, Conn. *Instr. in Physiology; Assoc. Prof. of Physiology, Spanish Research Council, Madrid, Spain.* (**1,** 1952)

DeLory, George Edward, Ph.D. (Lond.). Univ. of Manitoba Med. College, Biochemistry Dept., Bannatyne and Emily, Winnipeg, Canada. *Assoc. Prof.* (**2,** 1951)

del Pozo, E. C., M.D. Av. Juarez No. 151, Coyoaca, D. F. 21, Mexico. (**1,** 1943)

De Meio, Romano Humberto, Ph.D. Jefferson Med. College, 1025 Walnut St., Philadelphia 7, Pa. *Assoc. Prof. of Biochemistry.* (**2,** 1951)

Dempsey, Edward W., Ph.D. Washington Univ. School of Medicine, St. Louis 10, Mo. *Assoc. Prof. of Anatomy.* (**1,** 1940)

Dennis, Emery W., Ph.D. Sterling-Winthrop Research Inst., Rensselaer, N. Y. *Dir., Biology Div.* (**3,** 1952; **6,** 1952)

Denslow, J. S., D.O. Kirksville College of Osteopathy, Still Memorial Research Trust, Kirksville, Mo. *Researcher.* (**1,** 1949)

Denstedt, Orville F., Ph.D. McGill Univ., Dept. of Biochemistry, Montreal, Que., Canada. *Assoc. Prof.* (**2,** 1948)

Derbyshire, Arthur J., Ph.D. Harper Hospital, EEG Dept., Detroit, Mich. (**1,** 1939)

de Savitsch, Eugene, M.D. 2132 R St., N.W., Washington 8, D. C. *Surgeon (R) USPHS; Consulting Surgeon, Home for Incurables.* (**4,** 1934)

Dethier, Vincent G., Ph.D. Johns Hopkins Univ., Dept. of Biology, Baltimore 18, Md. *Assoc. Prof.* (**1,** 1950)

Dettwiler, Herman A., Ph.D. Eli Lilly and Co., Indianapolis, Ind. *Asst. Dir., Biological Div.* (**6,** 1946)

Deuel, Harry J., Jr., Ph.D. Univ. of Southern California, Los Angeles. *Dean of Grad. School.* (**1,** 1928; **2,** 1924; **5,** 1933)

Deulofeu, Venancio, D. Chem. Casilla Correo 2539, Buenos Aires, Argentina. *Prof. of Organic Chemistry, Univ. of Buenos Aires.* (**2,** 1942)

Deutsch, Harold F., Ph.D. Univ. of Wisconsin. Dept. of Physiological Chemistry, Madison 6, *Assoc. Prof.* (**2,** 1948)

Dewey, Virginia C., Ph.D. Amherst College, Biological Lab., Amherst, Mass. *Research Assoc., Dept. of Biology.* (**2,** 1949)

Dexter, Lewis, M.D. Peter Bent Brigham Hospital, 721 Huntington Ave., Boston, Mass. *Sr. Assoc. in Medicine; Asst. Prof. of Medicine, Harvard Med. School.* (**1,** 1951)

Dey, Frederick L., Ph.D., M.D. Niantic, Conn. *Lt. (j.g.), U.S.N.R.* (**1,** 1945)

Deyrup, Ingrith J., Ph.D. Barnard College, Columbia Univ., Dept. of Zoology, New York City 27. *Asst. Prof.* (**1,** 1949)

Dickison, H. L., Ph.D. Bristol Labs., Inc., Bldg. 6, Syracuse 1, N. Y. *Dir., Pharmacological Research; Lecturer in Pharmacology, State Univ. Med. Center at Syracuse.* (**3,** 1946)

Dickman, Sherman R., Ph.D. Univ. of Utah, 205 Cancer Research Bldg., Salt Lake City. *Assoc. Prof. of Biochemistry.* (**2,** 1951)

Dieckmann, William J., M.D. The Chicago Lying-In Hospital, 5841 Maryland Ave., Chicago 37, Ill. *Chief of Service; Prof. and Chairman of Dept. of Obstetrics and Gynecology, Univ. of Chicago.* (**3,** 1947)

Dienes, Louis, M.D. Massachusetts General Hospital, Boston. *Bacteriologist.* (**6,** 1924)

Dill, David Bruce, Ph.D. Med. Labs., Army Chemical Center, Md. *Scientific Dir.* (**1,** 1941; **2,** 1927; **5,** 1936)

Dille, James M., Ph.D., M.D. Univ. of Washington School of Medicine, Seattle 5. *Prof. and Exec. Officer, Dept. of Pharmacology.* (**3,** 1939)

Dillon, Robert T., Ph.D. G.D. Searle and Co., Box 5110, Chicago 80, Ill. *Head, Analytical Div.* (**2,** 1934)

Dingle, John H., Sc.D., M.D. Western Reserve Univ. School of Medicine, Cleveland 6, Ohio. *Prof. of Preventive Medicine.* (**6,** 1941)

Di Palma, Joseph R., M.D. Hahnemann Med. College, Dept. of Pharmacology, 230 N. Broad St., Philadelphia, Pa. *Prof. and Head of Dept.* (**1,** 1943; **3,** 1951).

Dische, Zacharias, M.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Oph-

thalmology, 630 W. 168th St., New York City 32. *Asst. Prof. of Biochemistry.* (**2,** 1944)

Dittmer, Karl, Ph.D. Florida State Univ., Dept. of Chemistry, Tallahassee. *Prof. and Dept. Exec.* (**2,** 1950)

Dixon, Frank James, Jr., M.D. Univ. of Pittsburgh School of Medicine, Dept. of Pathology, Pittsburgh 13, Pa. *Prof.* (**4,** 1951; **6,** 1950)

Dixon, Harold M., M.D. Veterans Admin. Regional Office, San Diego, Calif. (**4,** 1936)

Doan, Charles A., M.D. Ohio State Univ. College of Medicine, Columbus. *Dean; Prof. of Medicine.* (**4,** 1928)

Dochez, A. Raymond, M.D. Presbyterian Hospital, 620 W. 168th St., New York City. *John E. Borne Prof. Emeritus of Medicine and Surgical Research, Columbia Univ.* (**4R,** 1917; **6R,** 1922)

Dodd, Matthew C., Ph.D. Ohio State Univ., Dept. of Bacteriology, Columbus 10. *Assoc. Prof. of Bacteriology and Immunology.* (**6,** 1950)

Dodds, Mary L., Ph.D. Pennsylvania State College, State College. *Prof., Foods and Nutrition Research.* (**5,** 1948)

Dohan, F. Curtis, M.D. 80 Princeton Rd., Cnywyd, Pa. *Fellow, George S. Cox Med. Research Inst.; Assoc. in Medicine, Univ. of Pennsylvania.* (**1,** 1941)

Doisy Edward A., Sr., Ph.D. St. Louis Univ. School of Medicine, St. Louis 4, Mo. *Prof. of Biological Chemistry.* (**2,** 1920)

Doisy, Edward A., Jr., M.D. St. Louis Univ. School of Medicine, Dept. of Internal Medicine, 1402 S. Grand Blvd., St. Louis 4, Mo. *Sr. Instr.* (**2,** 1951)

Dolman, C. E., D.P.H., Ph.D. Univ. of British Columbia, Vancouver, B. C., Canada. *Head of Dept. of Bacteriology and Preventive Medicine.* (**6,** 1947)

Dominguez, Rafael, M.D. Western Reserve Univ., Cleveland, Ohio *Asst. Prof. of Pathology; Dir., Div. of Labs. and Research, St. Luke's Hospital.* (**1,** 1935)

Donahue, D. D., D.Sc. 4228 Military Rd., N.W., Washington 15, D. C. (**3,** 1941)

Dooley, M. S., M.D. State Univ. Med. Center at Syracuse Univ., Syracuse, N. Y. *Prof. of Pharmacology.* (**3R,** 1923)

Dorfman, Albert, PhD., M.D. Univ. of Chicago, Dept. of Pediatrics, Chicago, Ill. *Asst. Prof.* (**2,** 1948)

Dorfman, Ralph I., Ph.D. Worcester Fndn. for Experimental Biology, 222 Maple Ave., Shrewsbury, Mass. *Assoc. Dir. of Labs. and Research; Prof. of Biochemistry, Boston Univ.* (**2,** 1940)

Dotti, Louis Basil, Ph.D. St. Luke's Hospital, Amsterdam Ave. and 113th St., New York City. *Chemist; Lecturer in Physiology and Biochemistry, New York Med. College.* (**1,** 1937)

Doty, J. Roy, Ph.D. American Dental Assoc., 222 E. Superior St., Chicago, Ill. *Secretary, Council on Dental Therapeutics.* (**2,** 1941)

Doty, Robert W., Ph.D. 4148 S. 20th East, Salt Lake City 7, Utah. (**1,** 1951)

Doudoroff, Michael, Ph.D. Univ. of California, Dept. of Bacteriology, 3519 Life Sciences Bldg., Berkeley 4. *Prof. of Bacteriology.* (**2,** 1946)

Dougherty, Robert W., D.V.M., M.S. New York State Veterinary College, Cornell Univ., Ithaca, N. Y. *Prof. of Veterinary Physiology.* (**1,** 1951)

Dougherty, Thomas F., Ph. D. Univ. of Utah School of Medicine, Dept. of Anatomy, Salt Lake City. *Prof. and Chairman of Dept.* (**1,** 1950)

Dounce, Alexander L., Ph.D. Strong Memorial Hospital, 260 Crittenden Blvd., Rochester, N. Y. *Instr. in Biochemistry, Univ. of Rochester School of Medicine and Dentistry.* (**2,** 1944)

Doupe, Joseph, M.D. Medical College, Dept. of Physiology and Med. Research, Bannatyne and Emily, Winnipeg, Manitoba, Canada. *Professor.* (**1,** 1949)

Dow, Philip, Ph.D. Medical College of Georgia, Augusta. *Prof. of Physiology.* (**1,** 1939)

Dow, Robert S., M.D., Ph.D. Univ. of Oregon Med. School, Portland, *Assoc. Prof. of Anatomy.* (**1,** 1940)

Downs, Ardrey W., M.D., D.Sc. Univ. of Alberta, Edmonton, Alberta, Canada. *Prof. of Physiology and Pharmacology.* (**1R,** 1917)

Downs, Cora M., Ph.D., Route 2, Lawrence, Kans. *Prof. of Bacteriology, Univ. of Kansas.* (**6,** 1929)

Doyle, William Lewis, Ph.D. Univ. of Chicago, Dept. of Anatomy, Chicago 37, Ill. (**1,** 1946)

Drabkin, David L., M.D. Univ. of Pennsylvania Grad. School of Medicine, Philadelphia 4. *Prof. and Chairman of Dept. of Physiological Chemistry.* (**2,** 1928; **5,** 1934)

Dragstedt, Carl A., Ph.D., M.D. Northwestern Univ. Med. School, 303 E. Chicago Ave., Chicago, Ill. *Prof. and Chairman of Dept. of Pharmacology.* (**1,** 1928; **3,** 1932)

Dragstedt, Lester R., M.D., Ph.D. Univ. of Chicago, 950 E. 59th St., Chicago, Ill. *Prof. and Chairman of Dept. of Surgery.* (**1,** 1920)

Draize, J. H., Ph.D. Food and Drug Admin., Div. of Pharmacology, Federal Security Agency, Washington, D.C. *Pharmacologist.* (**3,** 1940)

Drake, T. G. H., M.B. Univ. of Toronto, Toronto, Canada. *Jr. Demonstrator in Pediatrics, Dept. of Medicine; Assoc. Dir., Research Lab., Hospital for Sick Children.* (**5,** 1936)

Draper, William B., M.Sc., M.D. Univ. of Colorado School of Medicine, 4200 E. 9th Ave., Denver. *Prof. of Physiology and Pharmacology.* (**1,** 1947; **3,** 1938)

Dreisbach, Robert H., Ph.D., M.D. Stanford Univ. School of Medicine, San Francisco 15, Calif. *Assoc. Prof. of Pharmacology.* (**3,** 1945)

Dreyer, Nicholas Bernard, M.A. Woman's Med. College of Pennsylvania, Philadelphia 29. *Prof. of Physiology and Pharmacology.* (**3,** 1942)

Drill, Victor Alexander, Ph.D., M.D. Wayne Univ. College of Medicine, Detroit 26, Mich. *Prof. of Pharmacology.* (**1,** 1943; **3,** 1946)

Drinker, Cecil K., M.D. P. O. Box 502, Falmouth, Mass. (**1,** 1915)

Dripps, Robert D., M.D. Univ. of Pennsylvania School of Medicine, Philadelphia 4. *Prof. of Anesthesiology.* (**1,** 1947; **3,** 1945)

Driver, Robert L., M.S., Ph.D. Med. College of Alabama, Birmingham 5. (**1,** 1945; **3,** 1947)

Drury, Douglas R., M.D. Univ. of Southern California, Los Angeles. *Prof. of Physiology.* (**1,** 1932)

Dubin, Harry E., Ph.D. HED Pharmaceuticals, Inc., 2 Hamilton Ave., New Rochelle, N. Y. *President.* (**2,** 1925)

Dubin, Isadore N., M.D. Army Med. Service Grad. School, Army Med. Center, Washington 12, D. C. *Dept. of Virus and Rickettsial Diseases; Major, MC, AUS.* (**4,** 1947)

Dubnoff, Jacob W., Ph.D. 1201 E. California St., Pasadena 4, Calif. *Sr. Research Fellow, California Inst. of Technology.* (**2,** 1946)

DuBois, Eugene F., M.D. Cornell Univ. Med. School, 1300 York Ave., New York City. *Retired Prof. of Physiology and Biophysics; Attending Physician, New York Hospital.* (**1,** 1913; **3R,** 1921; **5R,** 1935)

Du Bois, Kenneth P., Ph.D. Univ. of Chicago, Dept. of Pharmacology, Chicago 37, Ill. *Assoc. Prof.* (**3,** 1946)

Dubos, Rene J., Ph.D., D.Sc. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Head of Dept. of Bacteriology.* (**6,** 1938)

Duffy, Carl E., Ph.D. Univ. of Arkansas School of Medicine, Little Rock. *Prof. of Bacteriology and Parasitology.* (**6,** 1951)

Dugal, L. Paul, Ph.D. Laval Univ. Med. School, Research Dept. on Acclimatization, Quebec City, Canada. *Research Prof. and Head of Dept., Assoc. Dir. of Inst. of Hygiene.* (**1,** 1947)

Duggan, Edward L., Ph.D. Univ. of California Med. School, Biochemistry Div., Berkeley. *Asst. Prof.* (**2,** 1951)

Dukes, H. H., D.V.M., M.S. Cornell Univ., New York State Veterinary College, Ithaca. *Prof. of Veterinary Physiology.* (**1,** 1934)

Dulaney, Anna D., Ph.D. Univ. of Tennessee, Pathological Inst., Memphis. *Assoc. Prof. of Bacteriology, Med. School.* (**6,** 1924)

Dumke, Paul Rudolph, M.D. Hospital of the Univ. of Pennsylvania, Dept. of Anesthesiology, Philadelphia. *Assoc. Prof.; Assoc. in Clin. Pharmacology, Univ. of Pennsylvania.* (**3,** 1942)

Dumm, Mary E., Ph.D. New York Univ.-Bellevue Med. Center, 477 First Ave., New York City 16. *Adjunct Asst. Prof. of Chemistry.* (**1,** 1950)

Dunham, Wolcott B., M.D. V. A. Med. Teaching Group, Kennedy Hospital, Memphis 15, Tenn. *Dir., General Research Lab.* (**6,** 1951)

Dunlap, Charles E., M.D. Tulane Univ. of Louisiana, 1430 Tulane Ave., New Orleans. *Prof. of Pathology.* (**4,** 1942)

Dunn, Arthur L., Ph.D. Univ. of Nebraska College of Medicine, Dept. of Physiology and Pharmacology, 42nd and Dewey Ave., Omaha 5. *Asst. Prof.* (**1,** 1951)

Dunn, Max Shaw, Ph.D. Univ. of California, Dept. of Biochemistry, Los Angeles. *Prof. of Chemistry.* (**2,** 1933)

Dunn, Thelma Brumfield, M.D. Natl. Cancer Inst., Bethesda, Md. *Pathologist.* (**4,** 1945)

Durlacher, Stanley H. Med. Labs., Army Chemical Center, Md. *Chief, Section on Pathology.* (**1,** 1949)

Durrant, Edwin P., Ph.D. Ohio State Univ., Columbus. *Assoc. Prof. Emeritus of Physiology.* (**1R,** 1928)

Dury, Abraham, Ph.D. Dorn Lab. for Med. Research, Bradford Clinic, Bennett at Pleasant St., Bradford, Pa. *Asst. Dir. of Research.* (**1,** 1948)

Duryee, William R., Ph.D. Carnegie Inst., Dept. of Terrestrial Magnetism, Washington 15, D. C. *Head, Cellular Physiology Unit, Natl. Cancer Inst., Natl. Insts. of Health.* (**1,** 1952)

Dutcher, James D., Ph.D. Squibb Inst. for Med. Research, New Brunswick, N. J. *Research Assoc., Div. of Organic Chemistry.* (**2,** 1946)

Dutcher, R. Adams, D.Sc. 254 E. Hamilton Ave., State College, Pa. *Prof. Emeritus, Dept. of Agriculture and Biochemistry, Pennsylvania State College.* (**2,** 1920; **5R,** 1933)

Duval, Charles Warren, M.D. Sacred Heart Hospital, Pensacola, Fla. *Prof. Emeritus of Pathology and Bacteriology, Tulane Univ.* (**4,** 1913)

du Vigneaud, Vincent, Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City 21. *Prof. of Biochemistry.* (**2,** 1929; **5,** 1934)

Dworkin, Simon, D.D.S., M.D. McGill Univ., Biology Building, Montreal, Quebec, Canada. *Lecturer in Physiology, Faculty of Medicine.* (**1,** 1931)

Dye, J. A., Ph.D. Cornell Univ., James Law Hall, Ithaca, N. Y. *Prof. of Physiology.* (**1,** 1929)

Dye, Marie, Ph.D. Michigan State College, East Lansing. *Dean, School of Home Economics.* (**2,** 1929; **5,** 1933)

Dyer, Helen M., Ph.D. Natl. Cancer Inst., Bethesda, Md. *Biochemist.* (**2,** 1936; **5,** 1937)

Dziemian, Arthur J., Ph.D. Med. Labs., Army Chemical Center, Md. *Physiologist, Biophysics Section.* (**1,** 1948)

Dziewiatkowski, Dominic D., Ph.D. Rockefeller

Inst. for Med. Research, Hospital, 66th St. and York Ave., New York City 21. *Assoc., Dept. of Biochemistry.* (**2,** 1950)

Eadie, George S., Ph.D. Duke Univ. School of Medicine, Box 3709, Durham, N. C. *Prof. of Physiology and Pharmacology.* (**1,** 1929; **3,** 1940)

Eagle, Edward, Ph.D. Swift and Co., Research Labs., Chicago 9, Ill. *Research Physiologist.* (**1,** 1950)

Eagle, Harry, M.D. Natl. Insts. of Health, Bethesda, Md. *Chief of Section on Exper. Therapeutics, Microbiological Inst.* (**3,** 1946; **4,** 1936)

Eakin, Robert E., Ph.D. Univ. of Texas, Dept. of Chemistry, Austin. *Assoc. Prof. of Chemistry.* (**2,** 1948)

Earle, D. P., Jr., M.D., Med. Sc. D. New York Univ. College of Medicine, 477 First Ave., New York City 16. *Assoc. Prof. of Medicine.* (**1,** 1947)

Earle, Wilton R., Ph.D. Natl. Cancer Inst., Bethesda, Md. *Cytologist; Head of Tissue Culture Unit, Biology Sec.* (**4,** 1940)

Eaton, Monroe D., M.D. Harvard Med. School, Boston, Mass. *Assoc. Prof. of Bacteriology and Immunology.* (**6,** 1937)

Eckenhoff, James E., M.D. Hospital of the Univ. of Pennsylvania, Philadelphia. *Asst. Prof. of Anesthesiology; Assoc. in Clin. Pharmacology, Univ. of Pennsylvania.* (**1,** 1948)

Ecker, E. E., Ph.D. Western Reserve Univ. School of Medicine, 2085 Adelbert Rd., Cleveland, Ohio. *Prof. of Immunology.* (**4,** 1925; **6,** 1947)

Eckstein, Gustav, M.D. Univ. of Cincinnati College of Medicine, Cincinnati, Ohio. *Prof. of Physiology.* (**1,** 1948)

Eckstein, Henry C., Ph.D. Univ. of Michigan, 320 W. Med. Building, Ann. Arbor. *Prof. of Biological Chemistry.* (**2,** 1925)

Eckstein, R. W., M.A., M.D. Western Reserve Univ., Dept. of Medicine, Cleveland, Ohio. *Sr. Instr.; in charge of Cardiovascular Exper. Med. Research Lab.* (**1,** 1947)

Eddy, Bernice E., Ph.D. Natl. Insts. of Health, Inst. of Microbiology, Bethesda 14, Md. *Sr. Bacteriologist.* (**6,** 1949)

Eddy, Nathan B., M.D. Natl. Insts. of Health, Bethesda, Md. *Med. Officer.* (**3,** 1929)

Eddy, Walter H., Ph.D. American Chlorophyll, Inc., Lake Worth, Fla. *Scientific Dir.* (**2,** 1913; **5R,** 1933)

Edelmann, Abraham, Ph.D. Brookhaven Natl. Labs., Upton, L. I., N. Y. *Physiologist.* (**1,** 1948)

Ederstrom, Helge E., Ph.D. St. Louis Univ. School of Medicine, Dept. of Physiology, 1402 S. Grand Blvd., St. Louis 4, Mo. *Asst. Prof.* (**1,** 1949)

Edholm, O. G., M.B. Natl. Inst. for Med. Research, Hampstead, London, N.W. 3, England. *Head, Dept. of Human Physiology.* (**1,** 1948)

Edsall, Geoffrey, M.D. Army Med. Service Grad. School, Army Med. Center, Washington 12, D. C. *Dir., Biologic Products Div.* (**6,** 1943)

Edsall, John Tileston, M.D. Harvard Med. School, Univ. Lab., Boston, Mass. *Prof. of Biological Chemistry.* (**2,** 1931)

Edwards, Dayton J., Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City. *Assoc. Prof. of Physiology; Asst. Dean.* (**1,** 1921)

Edwards, Jesse E., M.D. Mayo Clinic, Rochester 4, Minn. *Asst. Prof. of Pathologic Anatomy, Mayo Foundation.* (**4,** 1941)

Edwards, J. Graham, Ph.D. 24 High St., Buffalo, N. Y. *Assoc. Prof. of Anatomy, Univ. of Buffalo.* (**1,** 1932)

Edwards, Leslie E., Ph.D. Med. College of Virginia, Dept. of Physiology and Pharmacology, Richmond. *Asst. Prof.* (**1,** 1950)

Eggerth, Arnold H., Ph.D. Hoagland Lab., 335 Henry St., Brooklyn, N. Y. *Assoc. Prof. of Microbiology and Immunology, State Univ. Med. Center at New York.* (**4,** 1925)

Ehrenstein, Maximilian R., Ph.D. Univ. of Pennsylvania Hospital, 806 Maloney Clinic, 36th and Spruce Sts., Philadelphia 4. *Prof. of Physiological Chemistry, Univ. of Pennsylvania School of Medicine.* (**2,** 1942)

Ehrich, William E., M.D. Univ. of Pennsylvania, Philadelphia. *Prof. of Pathology, Grad. School of Medicine; Chief, Div. of Pathology, Philadelphia General Hospital.* (**4,** 1945)

Eichelberger, Lillian, Ph.D. Univ. of Chicago, Dept. of Surgery, Chicago, Ill. *Assoc. Prof. of Biochemistry.* (**2,** 1937)

Eichna, Ludwig W., M.D. New York Univ. College of Medicine, Dept. of Medicine, 477 First Ave., New York City 16. *Assoc. Prof. of Medicine; Visiting Physician, Bellevue Hospital.* (**1,** 1949)

Eiler, John J., Ph.D. Univ. of California Med. Center, San Francisco 22. *Prof. of Biochemistry and Pharmacy, Univ. of California College of Pharmacy.* (**2,** 1948)

Eisen, Herman N., M.D. New York Univ.-Bellevue Med. Center, Inst. of Industrial Medicine, 477 First Ave., New York City 16. *Asst. Prof.* (**6,** 1951)

Eisenbrandt, Leslie L., Ph.D. Univ. of Kansas City, Dept. of Pharmacology, Kansas City 4, Mo. *Prof. and Dir.* (**3,** 1951)

Eisenman, Anna J., Ph.D. U. S. Public Health Service Hospital, Lexington, Ky. *Biological Chemist.* (**2,** 1930)

Elberg, Sanford S., Ph.D. Camp Detrick, Frederick, Md. (**6,** 1948)

Elderfield, Robert C., Ph.D. Univ. of Michigan,

2020 Chemistry Bldg., Ann Arbor. *Prof. of Chemistry.* (**2,** 1934)

Elftman, Herbert, Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City. *Assoc. Prof. in Anatomy.* (**1,** 1940)

Elion, Gertrude B., M.S. 25 Park View Ave., Bronxville 8, N. Y. *Sr. Biochemist, Wellcome Research Labs.* (**2,** 1952)

Eliot, Martha M., M.D. 5005 Jamestown Rd., Washington 16, D. C. (**5,** 1933)

Elkinton, J. Russell, M.D. Univ. of Pennsylvania Hospital, Dept. of Medicine, Philadelphia. (**1,** 1947)

Elliott, Henry W., Ph.D. Univ. of California Med. School, San Francisco. *Lecturer and Research Assoc. in Pharmacology.* (**3,** 1948)

Elliott, K. Allan C., Sc.D. Montreal Neurological Inst., 3801 Univ. St., Montreal, Que., Canada. *Assoc. Prof. of Exper. Neurology and Biochemistry.* (**2,** 1937)

Elliott, William H., Ph.D. St. Louis Univ., School of Medicine, St. Louis 4, Mo. *Asst. Prof. of Biochemistry.* (**2,** 1952)

Ellis, C. H., Ph.D. Wellcome Research Labs., Tuckahoe 7, N. Y. (**1,** 1947)

Ellis, Frederick W., M.D., Ph.D. Univ. of North Carolina, School of Medicine, Chapel Hill. *Assoc. Prof. of Pharmacology.* (**3,** 1945)

Ellis, Lillian N., Ph.D. Adelphi College, Garden City, Long Island, N. Y. *Instr. in Chemistry.* (**5,** 1940)

Ellis, Max Mapes, Ph.D. Univ. of Missouri Med. School, Columbia. *Prof. of Physiology and Pharmacology.* (**1,** 1923)

Ellis, N. R., M.S. U. S. Dept. of Agriculture, Bureau of Animal Industry, Beltsville, Md. *Asst. Chief, Animal Husbandry Div.* (**2,** 1928; **5,** 1933)

Ellis, Sidney, Ph.D. Temple Univ. Med. School, Dept. of Pharmacology. Philadelphia, Pa. *Assoc. Prof.* (**3,** 1947)

Elmadjian, Fred, Ph.D. Worcester State Hospital, Worcester, Mass. *Staff Member, Worcester Foundation for Exper. Biology; Research Assoc., Physiology Dept., Tufts Med. School.* (**1,** 1950)

Elser, William J., M.D. Kent, Conn. (**6R,** 1920)

Elvehjem, Conrad Arnold, Ph.D. Univ. of Wisconsin, Biochemistry Bldg., Madison. *Chairman, Dept. of Biochemistry; Dean of Grad. School.* (**2,** 1931; **5,** 1933)

Embree, Norris Dean, Ph.D. Distillation Products Ind. Div. of Eastman Kodak Co., 755 Ridge Rd. W., Rochester 13, N. Y. *Dir. of Research.* (**2,** 1946)

Emerson, George A., Ph.D. Univ. of Texas, Med. Branch, Galveston. *Prof. of Pharmacology.* (**3,** 1935)

Emerson, Gladys A., Ph.D. Merck Inst. of Therapeutic Research, Rahway, N. J. *Nutritionist.* (**5,** 1942)

Emerson, Oliver H., Ph.D. U. S. Dept. of Agriculture, Western Regional Research Lab., Albany 6, Calif. *Assoc. Chemist.* (**2,** 1938)

Emery, Frederick E., D.V.M., Ph.D. Univ. of Arkansas School of Medicine, Little Rock. *Prof. of Physiology and Pharmacology.* (**1,** 1930)

Emmart, Emily W., Ph.D. Natl. Insts. of Health, Bethesda 14, Md. *Cytologist.* (**3,** 1947)

Enders, John F., Ph.D. The Children's Hospital, 300 Longwood Ave., Boston, Mass. *Chief, Research Div. of Infectious Diseases.* (**6,** 1936)

Endicott, Kenneth M., M.D. USPHS, Natl. Insts. of Health, Bethesda 14, Md. *Chief of Section on Metabolic and Degenerative Disease.* (**4,** 1947)

Engel, Frank L., M.D. Duke Univ. School of Medicine, Durham, N. C. *Asst. Prof. of Medicine.* (**1,** 1947)

Engel, Lewis L., Ph.D., Massachusetts General Hospital, Huntington Labs., Boston. *Asst. Prof. of Biological Chemistry, Harvard Med. School; Tutor in Biological Sciences, Harvard Univ.* (**2,** 1949)

Engel, Ruben W., Ph.D. Alabama Polytechnic Inst., Lab. of Animal Nutrition, Auburn. *Animal Nutritionist.* (**5,** 1948)

Engle, Earl Theron, Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City. *Prof. of Anatomy.* (**1,** 1930)

English, James, Jr., Ph.D. Yale Univ., Sterling Chemistry Lab., New Haven, Conn. *Asst. Prof. of Chemistry.* (**2,** 1946)

Enright, John B., Ph.D. Univ. of California, School of Veterinary Medicine, Davis. *Supervising Bacteriologist.* (**6,** 1948)

Epstein, Albert A., M.D. 1111 Madison Ave., New York City. *Physician, Beth Israel Hospital and Hospital for Joint Diseases.* (**2,** 1912)

Ercoli, N., M.D., Ph.D. Inst. Sieroterapico Milanese, Milan, Italy. (**3,** 1947)

Erickson, Cyrus C., M.D. Univ. of Tennessee, Inst. of Pathology, Memphis 3. *Prof. of Pathology.* (**4,** 1941)

Erickson, John Otto, Ph.D. Veterans Admin. Center, Radioisotope Lab., Wilshire and Sawtelle Blvds., Los Angeles 25, Calif. *Radioisotope Scientist.* (**6,** 1946)

Erlanger, Joseph, M.D., Sc.D. Washington Univ. School of Medicine, St. Louis, Mo. *Prof. Emeritus of Physiology.* (**1R,** 1901)

Ershoff, Benjamin H., Ph.D. 1207 S. Vermont Ave., Los Angeles 6, Calif. *Research Assoc., Dept. of Biochemistry and Nutrition, Univ. of Southern California; Dir. of Research, Emory W. Thurston Labs., Los Angeles.* (**5,** 1950)

Eschenbrenner, Allen B., M.D. Natl. Insts. of

Health, Natl. Cancer Inst., Bethesda 14, Md. (4, 1946)

Espe, Dwight L., Ph.D. U.S.D.A., Office of Exper. Stations, Washington 25, D. C. (1, 1940)

Essex, Hiram E., Ph.D. Mayo Foundation, Inst. of Exper. Medicine, Rochester, Minn. *Prof. of Physiology.* (1, 1932; 3, 1940)

Essig, Carl F., M.D. 5 Bailey Ave., Milton, Mass. *Sr. Asst. Surgeon, USPHS.* (1, 1952)

Ettinger, C. H., M.D., C.M. Queen's Univ., Kingston, Ontario, Canada. *Prof. of Physiology; Asst. Dir., Div. of Med. Research, Natl. Research Council, Ottawa.* (1, 1943)

Evans, Charles A., M.D. Univ. of Washington, Dept. of Microbiology, Seattle 5. *Prof.* (6, 1952)

Evans, Earl Alison, Jr., Ph.D. Univ. of Chicago, Dept. of Biochemistry, Chicago, Ill. *Prof. and Chairman of Dept.* (2, 1939)

Evans, Everett Idris, M.D., Ph.D. Med. College of Virginia, Richmond. *Prof. of Surgery; Dir., Lab. of Surgical Research.* (1, 1935)

Evans, Gerald Taylor, M.D., Ph.D. Univ. of Minnesota Hospitals, Minneapolis. *Dir. of Lab. Service; Assoc. Prof. of Medicine, Univ. of Minnesota.* (1, 1942)

Evans, Herbert M., M.D. Univ. of California, Berkeley. *Prof. of Anatomy and Dir. of Inst. of Exper. Biology.* (1, 1919)

Evans, John David, Ph.D. Temple Univ. School of Medicine, Philadelphia 40, Pa. *Asst. Prof. of Physiology.* (1, 1952)

Evans, Robert John, Ph.D. Michigan State College, Dept. of Agricultural Chemistry, East Lansing. *Research Prof.* (5, 1951)

Evans, Titus C., Ph.D. State Univ. of Iowa, College of Medicine, Iowa City. *Research Prof; Head of Radiation Research Lab.* (1, 1949)

Eveleth, D. F., Ph.D., D.V.M. North Dakota Agricultural College, Fargo. *Prof. of Veterinary Science, North Dakota Agricultural Exper. Station.* (2, 1939)

Everett, Guy M., Ph.D. Abbott Labs., Research Div., N. Chicago, Ill. *Sr. Pharmacologist.* (3, 1950)

Everett, John W., Ph.D. Duke Hospital, Box 3209, Durham, N. C. *Prof. of Anatomy, Duke Univ. School of Medicine.* (1, 1951)

Everett, Mark R., Ph.D. Univ. of Oklahoma School of Medicine, 800 N. E. 13th St., Oklahoma City 4. *Dean, School of Medicine; Supt. of Univ. Hospitals.* (2, 1929)

Eversole, Wilburn J., M.Sc., Ph.D. Univ. of New Mexico, Dept. of Biology, Albuquerque. (1, 1950)

Everson, Gladys, Ph.D. Iowa State College, Ames. *Assoc. Prof. of Nutrition.* (5, 1948)

Ewing, P. L., Ph.D. Univ. of Arkansas School of Medicine, Dept. of Pharmacology and Physiology, Little Rock. *Assoc. Prof.; Dir. of Pharmacology, College of Pharmacy.* (3, 1938)

Eyster, John A. English, M.D. Univ. of Wisconsin, Madison. *Prof. of Physiology.* (1, 1906; 3R, 1908)

Fahr, George, M.D. Univ. of Minnesota Med. School, 102 Millard Hall, Minneapolis. *Prof. of Clin. Medicine.* (1R, 1913; 3, 1940)

Failey, Crawford F., Ph.B., Ph.D. 416 S. 6th St., Terre Haute, Ind. (2, 1933)

Fairhall, Lawrence T., Ph.D. Yale Univ., Dept. of Public Health, 310 Cedar St., New Haven, Conn. *Lecturer in Public Health and Toxicology.* (2, 1924)

Falk, Carolyn R., B.A. 40 E. 66th St., New York City. *Bacteriologist, Bureau of Labs., Dept. of Health.* (6, 1943)

Falk, K. George, Ph.D. Lab. of Industrial Hygiene, Inc., 254 W. 31st St., New York City 1. *Director.* (2, 1913)

Famulener, Lemuel W., Ph.D., M.D. 275 Engle St., Englewood, N. J. (6, 1920)

Farah, Alfred E., M.D. State Univ. Med. Center at Syracuse, Syracuse, N. Y. *Assoc. Prof. of Pharmacology.* (3, 1948)

Farber, Sidney, M.D. 300 Longwood Ave., Boston, Mass. *Prof. of Pathology, Harvard Med. School at Children's Hospital.* (4, 1934)

Farmer, Chester J., A.M. 1516 Mandolin St., Apt. B, New Orleans, La. *Prof. Emeritus of Biochemistry, Northwestern Univ.; 1952–53, Visiting Prof. of Biochemistry, Univ. of Louisiana Med. School, New Orleans.* (2, 1935)

Farner, Donald S., Ph.D. State College of Washington, Dept. of Zoology, Pullman. *Prof. of Zoophysiology.* (1, 1952)

Farnsworth, Edith B., M.S., M.D. 700 North Michigan, Chicago 11, Ill. *Assoc. in Medicine, Northwestern Univ.* (3, 1952)

Farr, Lee E., M.D. Brookhaven Natl. Lab., Upton, L. I., N. Y. *Chairman, Med. Dept.; Dir., Dept. of Med. Sciences; Physician-in-Chief, Brookhaven Natl. Lab. Hospital.* (4, 1941)

Farrar, George E., Jr., M.D. Wyeth Inc., 1600 Arch St., Philadelphia 3, Pa. *Med. Dir.* (3, 1947)

Farrell, James L., Ph.D., M.D. 636 Church St., Evanston, Ill. (1, 1938)

Fassett, David W., M.D. Eastman Kodak Co., Lab. of Industrial Medicine, Kodak Park Works, Rochester, N. Y. *Dir. of Lab.* (3, 1942)

Faulconer, Albert, Jr., M.D. Mayo Clinic, Rochester, Minn. *Consultant in Anesthesiology.* (3, 1950)

Fay, Marion, Ph.D. Woman's Med. College of Pennsylvania, Philadelphia 29. *Dean; Prof. of Physiological Chemistry.* (2, 1937)

Featherstone, Robert M., Ph.D. State Univ. of

Iowa, College of Medicine, Iowa City. *Assoc. Prof. of Pharmacology.* (**3,** 1947)

Feeney, Robert Earl, Ph.D. U. S. Dept. of Agriculture, Western Regional Research Lab., Albany 6, Calif. *Chemist.* (**2,** 1952)

Feigen, George A., Ph.D. Stanford Univ., Dept. of Physiology, Stanford, Calif. *Instructor.* (**1,** 1948)

Feinstein, Robert N., Ph.D. Univ. of Chicago, USAF Radiation Lab., 930 E. 58th St., Chicago 37, Ill. *Asst. Prof., Dept. of Biochemistry.* (**2,** 1950)

Feldman, Harry A., M.D. 704 Crawford Ave., Syracuse 10, N. Y. *Assoc. Prof. of Medicine State Univ. Med. Center.* (**6,** 1943)

Feldman, William H., D.V.M., M.S., D.Sc. Mayo Foundation, Rochester, Minn. *Prof. in the Div. of Exper. Surgery and Pathology.* (**4,** 1934)

Fell, Norbert, Ph.D. Camp Detrick, Frederick, Md. *Chief, Pilot Plants, Engineering Div.* (**6,** 1944)

Feller, A. E., M.D. Univ. of Virginia School of Medicine, Dept. of Microbiology, Charlottesville. *Prof.* (**6,** 1943)

Feller, David, Ph.D. Tufts College Med. School, Dept. of Physiology, 136 Harrison Ave., Boston, Mass. *Instr.* (**1,** 1951)

Fellows, Edwin J., Ph.D. Smith, Kline and French Labs., Philadelphia, Pa. *Dir. of Biol. Sciences; Assoc. Prof. of Pharmacology, Temple Univ. Med. School* (**3,** 1939)

Felsenfeld, Oscar, M.D., D.T.M.& H. Hektoen Research Inst., 629 South Wood St., Chicago 12, Ill. *Dir. of Bacteriology.* (**6,** 1949)

Felton, Lloyd D., M.D., D.Sc. USPHS, Natl. Insts. of Health, Bethesda, Md. *Med. Dir.* (**6R,** 1926)

Fenn, Wallace Osgood, Ph.D. Univ. of Rochester School of Medicine and Dentistry, 260 Crittenden Blvd., Rochester, N. Y. *Prof. of Physiology.* (**1,** 1924)

Fenning, Con, M.D. Univ. of Utah School of Medicine, Salt Lake City. *Prof. of Pharmacology and Physiology.* (**1,** 1942)

Fenton, P. F., Ph.D. Brown Univ., Providence, R. I. *Assoc. Prof. of Biology.* (**1,** 1947; **5,** 1949)

Ferguson, Frank C., Jr., M.D. Cornell Univ. Med. College, Dept. of Pharmacology, 1300 York Ave., New York City. *Instr.* (**3,** 1951)

Ferguson, Frederick P., Ph.D. Univ. of Maryland School of Medicine, Dept. of Physiology, Baltimore 1. (**1,** 1949)

Ferguson, James Kenneth Wallace, M.A., M.D. 76 Kilbarry Rd., Toronto, Ont., Canada. *Prof. of Pharmacology, Univ. of Toronto.* (**1,** 1933; **3,** 1941)

Ferguson, John, Ph.D. Creighton Univ. School of Medicine, Omaha 2, Neb. *Asst. Prof. of Physiology.* (**1,** 1949)

Ferguson, John Howard, M.A., M.D. Univ. of North Carolina School of Medicine, Dept. of Physiology, Chapel Hill. *Prof. of Physiology.* (**1,** 1933)

Ferguson, L. Kraeer, M.D. 133 S. 36th St., Philadelphia 4, Pa. *Prof. of Surgery, Grad. School, Univ. of Pennsylvania and Woman's Med. College of Pennsylvania; Surgeon, Doctor's Hospital and Philadelphia General Hosp.* (**4,** 1935)

Ferguson, Ralph L., M.D. 606 Porter St., Joplin, Mo. *Pathologist, St. John's Hospital.* (**4,** 1949)

Ferris, Benjamin G., Jr., M.D. Town House Road, Weston 93, Mass. *Assoc. in Physiology, Harvard School of Public Health.* (**1,** 1951)

Ferry, John Douglass, Ph.D. Univ. of Wisconsin, Madison. *Prof. of Chemistry.* (**2,** 1941)

Ferry, Ronald M., M.D. 966 Memorial Drive, Cambridge, Mass. *Assoc. Prof. of Biochemistry and Tutor in Biochem. Sciences, Harvard Univ.; Master of Winthrop House.* (**2,** 1924)

Fetcher, Edwin S., Ph.D. Steamboat Springs, Colo. (**1,** 1944)

Fetter, Dorothy, Ph.D. Brooklyn College, Dept. of Hygiene, Brooklyn, N. Y. *Instr. in Physiology.* (**1,** 1944)

Fevold, Harry L., Ph.D. Baxter Labs., Inc., 6301 Lincoln Ave., Morton Grove, Ill. *Dir. of Biochemical Research.* (**2,** 1942)

Field, John H, Ph.D. Univ. of California, School of Medicine, Dept. of Physiology, Los Angeles 24. *Chairman of Dept.* (**1,** 1930)

Field, John B., M.D., Ph.D. Univ. of Southern California School of Medicine, Los Angeles 33. *Asst. Prof. of Clin. Medicine.* (**2,** 1952)

Finch, Clement A., M.D. Univ. of Washington Med. School, Dept. of Medicine, Seattle. *Assoc. Prof.* (**1,** 1951)

Fincke, Margaret L., Ph.D. Oregon State College, Corvallis. *Prof. and Head of Dept. of Foods and Nutrition, Dept. of Home Economics.* (**5,** 1940)

Findley, Thomas, Jr., M.D. Ochsner Clinic, 3503 Prytania, New Orleans, La. *Head of Dept. of Internal Medicine; Asst. Prof. of Clin. Medicine, Tulane Univ. School of Medicine.* (**1,** 1938)

Finerty, John C., Ph.D. Univ. of Texas Med. Branch, Galveston. *Assoc. Prof. of Anatomy.* (**1,** 1947)

Finland, Maxwell, M.D. Boston City Hospital, Boston, Mass. *Asst. Prof. of Medicine, Harvard Med. School.* (**6,** 1941)

Finnegan, J. K., Ph.D. Med. College of Virginia, Richmond 19. *Assoc. Prof. of Pharmacology.* (**3,** 1947)

Firor, Warfield Monroe, M.D. Johns Hopkins Hospital, Baltimore, Md. *Assoc. Prof. of Surgery, Johns Hopkins Univ.* (**1,** 1932)

Fischel, Edward E., M.D., D.Med.Sc. Columbia Univ., College of Physicians and Surgeons, 630

W. 168th St., New York City 32. *Fellow in Medicine.* (**6,** 1948)

Fischer, Ernst, M.D. Med. College of Virginia, Richmond. *Prof. of Physiology.* (**1,** 1936)

Fischer, Hermann O. L., Ph.D. Univ. of California, Dept. of Biochemistry, Berkeley 4. *Prof. of Biochemistry.* (**2,** 1940)

Fischer, Martin H., M.D. Univ. of Cincinnati, 107 Physics Bldg., Cincinnati 21, Ohio. *Prof. Emeritus of Physiology.* (**1,** 1901; **2,** 1919)

Fishberg, Ella H., M.A., M.D. Beth Israel Hospital, Stuyvesant Park E., New York City. *Biochemist.* (**2,** 1931)

Fisher, Albert Madden, Ph.D. Univ. of Toronto, Connaught Med. Research Labs., Insulin Committee, 150 College St., Toronto 5, Canada. *Asst. Dir., Connaught Labs.; Exec. Secy., Insulin Com.* (**2,** 1944)

Fisher, Kenneth C., Ph.D. Univ. of Toronto, Dept. of Zoology, Toronto, Canada. (**1,** 1940)

Fishman, Alfred P., M.S., M.D. 541 East 20th St., New York City 10. *Established Investigator, Am. Heart Assn.* (**1,** 1952)

Fishman, William H., Ph.D. Tufts College Med. School, 30 Bennet St., Boston 15, Mass. *Research Prof. of Biochemistry.* (**2,** 1947)

Fiske, Cyrus H., M.D. Harvard Med. School, Boston, Mass. *Prof. of Biological Chemistry.* (**2,** 1914)

Fitzgerald, Mabel P. 12 Crick Rd., Oxford, England. (**1R,** 1913)

Fitzhugh, O. Garth, Ph.D. Federal Security Agency, Food and Drug Admin., Div. of Pharmacology, Washington, D. C. *Chief, Chronic Toxicity Branch.* (**3,** 1940)

Fleischmann, Walter, M.D., Ph.D. V. A. Hospital, Fort Howard, Md. *Dr., Sr. Grade; Instr. in Pediatrics, Johns Hopkins Univ.* (**1,** 1940)

Fleisher, Moyer S., M.D. Jewish Hospital, 216 S. Kingsbury Blvd., St. Louis, Mo. *Research Bacteriologist.* (**4,** 1924; **6,** 1932)

Flexner, Louis B., M.D. Univ. of Pennsylvania School of Medicine, Dept. of Anatomy, Philadelphia 4. *Prof. and Chairman of Dept.* (**1,** 1933; **2,** 1948)

Flick, John A. Univ. of Pennsylvania School of Medicine, Dept. of Bacteriology, Philadelphia 4. *Asst. Prof. of Bacteriology.* (**6,** 1949)

Flock, Eunice V., Ph.D. Mayo Clinic, Rochester, Minn. *Assoc. Prof. in Exper. Medicine, Mayo Foundation, Univ. of Minnesota.* (**2,** 1940)

Florman, Alfred L., M.D. Mt. Sinai Hospital, New York City. *Investigator in Virology.* (**6,** 1942)

Flosdorf, Earl W., Ph.D. Forest Grove, Pa. *Dir. of Research, F. J. Stokes Machine Co., Philadelphia.* (**6,** 1941)

Floyd, Cleveland, M.D., Sc.D. 246 Marlborough St., Boston, Mass. *Chief Examiner, Boston Health Dept.* (**6,** 1916)

Foa, Piero Pio, Ph.D. 710 S. Wolcott St., Chicago, Ill. *Assoc. Prof. of Physiology and Pharmacology, Chicago Med. School.* (**1,** 1944)

Folch, Jordi, M.D. McLean Hospital, Waverly, Mass. *Assoc. Prof. of Biological Chemistry, Harvard Med. School; Dir. of Scientific Research, McLean Hospital.* (**2,** 1941)

Foldes, Francis F., M.D. Mercy Hospital, 1400–1430 Locust St., Pittsburgh 19, Pa. *Asst. Prof. of Anesthesiology, Univ. of Pittsburgh, School of Medicine.* (**3,** 1952)

Folkers, Karl, Ph.D. Merck and Co., Inc., Rahway, N. J. *Assoc. Dir., Research and Development.* (**2,** 1947)

Follensby, Edna M., Ph.D. 80 E. Concord St., Boston, Mass. *Research Asst., Evans Memorial; Special Instr. in Biology, Simmons College.* (**6,** 1933)

Follis, Richard H., Jr., M.D. Johns Hopkins Univ. School of Medicine, Baltimore, Md. *Assoc. Prof. of Pathology.* (**4,** 1942)

Foltz, Elwood L., M.D. Univ. of Pennsylvania, School of Medicine, Philadelphia 4. *Instr. in Medicine; Assoc. in Clin. Pharmacology.* (**1,** 1952)

Fong, Jacob, Ph.D. 2640 Derby St., Berkeley 5, Calif. *Asst. Prof. of Bacteriology, Univ. of California.* (**6,** 1951)

Fontaine, Thomas Davis, Ph.D. U. S. Dept. of Agriculture, Bureau of Agricultural and Industrial Chemistry, Beltsville, Md. *Biochemist; Head, Div. of Biologically Active Compounds.* (**2,** 1946)

Foot, Nathan Chandler, M.D. Cornell Univ. Med. College, New York City. *Prof. Emeritus of Surgical Pathology.* (**4,** 1924)

Forbes, Alexander, A.M., M.D. Harvard University, Biological Labs., Divinity Ave., Cambridge, Mass. (**1,** 1910)

Forbes, Ernest B., Ph.D. State College, Pa. *Prof. Emeritus of Animal Nutrition.* (**1R,** 1917; **5R,** 1935)

Forbes, Henry S., M.D. Harvard Med. School, Boston, Mass. *Assoc. in Neuropathology.* (**1R,** 1931)

Forbes, John C., Ph.D. Med. College of Virginia, Richmond. *Research Prof. of Biochemistry.* (**2,** 1937)

Forbes, William H., Ph.D. Harvard School of Public Health, 55 Shattuck St., Boston, Mass. (**1,** 1943)

Forney, Robert B., Ph.D. Indiana Univ. School of Medicine, Indianapolis. *Asst. Prof. of Toxicology.* (**3,** 1950)

Forssander, C. A., M.D. Dept. of Tuberculosis Control, Vancouver, B. C., Canada. (**1,** 1950)

Forster, Francis M., M.D. 3800 Reservoir Rd., Washington, D. C. *Prof. and Dir. of Dept. of*

Neurology, Georgetown Univ. School of Medicine, (1, 1948)

Forster, Robert Elder, II, M.D. 721 Millbrook Lane, Haverford, Pa. *Asst. Prof. of Research Anesthesiology, Grad. School of Medicine, Univ. of Pennsylvania.* (1, 1951)

Forster, Roy P., Ph.M., Ph.D. Dartmouth College, Dept. of Zoology, Hanover, N. H. *Professor.* (1, 1950)

Fosdick, Leonard S., Ph.D. 311 E. Chicago Ave., Chicago, Ill. *Prof. of Chemistry, Northwestern Univ.* (2, 1944)

Foster, G. L., Ph.D. Columbia Univ., College of Physicians and Surgeons, 630 W. 168th St., New York City. *Prof. of Biological Chemistry.* (2, 1923)

Foster, Harry E., M.D. Fairmont Hotel, San Francisco, Calif. *Retired Med. Dir., Cutter Labs.* (6, 1913)

Foster, Jackson W., Ph.D. Univ. of Texas, Dept. of Bacteriology, Austin 12. *Prof. of Bacteriology.* (2, 1946)

Foster, Joseph F., Ph.D. Iowa State College, Dept. of Chemistry, Ames. *Assoc. Prof.* (2, 1952)

Foster, Robert H. K., Ph.D., M.D. 301 E. Jefferson St., Franklin, Ind. *Practicing Physician.* (1, 1940; 3, 1944)

Foster, William C., M.S. Hahnemann Med. College, 235 North 15th St., Philadelphia 2, Pa. *Research Assoc.; Teaching Asst. in Physiology.* (1, 1952)

Fothergill, LeRoy D., M.D. Camp Detrick, Frederick, Md. *Asst. Technical Dir.* (6, 1936)

Fowler, Ward S., M.D. Mayo Foundation, Rochester, Minn. (1, 1950)

Fox, Charles L., Jr., M.D. New York Med. College, Flower and Fifth Ave. Hospitals, New York City 29. *Research Assoc. in Surgery; Prof.* (1, 1951; 6, 1951)

Fox, Sidney W., Ph.D. Iowa State College, Chemistry Dept., Ames. *Prof. of Chemistry; Prof. in charge, Chemistry Section, Iowa Agricultural Exper. Station.* (2, 1946)

Fraenkel, Gottfried S., Ph.D. Univ. of Illinois, Urbana. *Prof. of Entomology.* (5, 1949)

Fraenkel-Conrat, Heinz, M.D., Ph.D. Univ. of California, Virus Lab., Berkeley. *Assoc. Biochemist; Lecturer, Biochemistry Dept.* (2, 1942)

Francis, Thomas, Jr., M.D. Univ. of Michigan School of Public Health, Ann Arbor. *Henry Sewall Univ. Prof. of Epidemiology; Chairman of Dept.* (4, 1940; 6, 1930)

Franke, Florent E., M.D. 9 Sylvester Ave., Webster Groves, Mo. *Asst. Prof. of Physiology. St. Louis Univ. School of Medicine.* (1, 1934)

Frankel, Edward M., Ph.D. 214 River Rd., Nyack 9, N. Y. *Consulting Chemist.* (2, 1916)

Fraps, R. M., Ph.D. U. S. Dept. of Agriculture, Bureau of Animal Husbandry, Beltsville, Md. *Sr. Physiologist.* (1, 1947)

Fraser, Donald T., M.B., D.P.H. Univ. of Toronto, Connaught Labs., Toronto 5, Canada. *Prof. of Hygiene and Preventive Medicine.* (6, 1935)

Fraser, Havelock F., M.D. U. S. Public Health Service Hospital, Lexington, Ky. *Asst. Chief, Addiction Research Center, Natl. Inst. of Mental Health, USPHS.* (3, 1952)

Fredette, Victorian. Univ. of Montreal, Montreal, Que., Canada. *Asst. Prof. of Bacteriology; Assoc. Dir., Inst. of Microbiology.* (6, 1948)

Free, Alfred H., Ph.D. Miles Labs., Inc., Research Lab., Elkhart, Ind. *Head of Biochemistry Section.* (2, 1946; 5, 1944)

Freedberg, A. Stone, M.D. Beth Israel Hospital, 330 Brookline Ave., Boston, Mass. *Assoc. Dir., Med. Research Dept.; Asst. Prof. of Medicine, Harvard Med. School.* (1, 1952)

Freeman, Harry, M.D. Worcester State Hospital, Worcester, Mass. *Internist, Research Service.* (1, 1939)

Freeman, Leslie Willard, Ph.D., M.D. Univ. of Indiana, Dept. of Surgery, Indianapolis. *Asst. Prof. of Surgery; Dir. of Surgical Research.* (1, 1944)

Freeman, Norman E., M.D. Univ. of California Med. School, Dept. of Surgery, San Francisco 22. (1, 1936)

Freeman, Smith, M.D., Ph.D. Northwestern Univ. School of Medicine, 303 E. Chicago Ave., Chicago, Ill. *Prof. and Chairman of Dept. of Exper. Medicine.* (1, 1937)

French, Cyrus E., Ph.D. Pennsylvania State College, State College. *Assoc. Prof. of Animal Nutrition.* (5, 1948)

French, C. Stacy, Ph.D. Carnegie Institution of Washington, Stanford Univ., Calif. *Dir., Div. of Plant Biology.* (2, 1946)

Freund, Jules, M.D. Public Health Research Inst. of the City of New York, New York City. *Chief of the Div. of Applied Immunology.* (6, 1924)

Frey, Charles N., Ph.D. Standard Brands Inc., 595 Madison Ave. at 57th St., New York City 22. *Dir., Scientific Relations.* (5, 1948)

Freyburger, Walter A., Jr., Ph.D. Upjohn Co., Kalamazoo, Mich. *Pharmacologist.* (3, 1951)

Fried, Josef, Ph.D. Squibb Inst. for Med. Research, New Brunswick, N. J. *Assoc. Member, Div. of Organic Chemistry.* (2, 1948)

Friedberg, Felix, Ph.D. Howard Univ. Med. School, Dept. of Biochemistry, Washington 1, D. C. *Instr.* (2, 1951)

Friedemann, Theodore E., Ph.D. Army Med. Nutrition Lab., 1819 W. Pershing Rd., Chicago 37, Ill. *Scientific Dir.* (2, 1925; 5, 1952)

Frieden, Edward H., Ph.D. Harvard Univ., 16

Divinity Ave., Cambridge 38, Mass. *Research Fellow, Dept. of Biology; Instr., Dept. of Biochemistry.* (2, 1950)

Friedenwald, Jonas S., M.A., M.D. 1212 Eutaw Place, Baltimore 17, Md. *Assoc. Prof. of Ophthalmology, Johns Hopkins Hospital.* (1, 1947)

Friedewald, William F., M.D. Emory Univ. School of Medicine, Atlanta, Ga. *Prof. of Bacteriology; Assoc. Prof. of Medicine.* (4, 1941)

Friedgood, Harry B., M.D. Univ. of California. School of Medicine, Los Angeles. *Assoc. Clin. Prof. of Medicine; Pres. and Chairman, California Inst. of Cancer Research.* (1, 1936)

Friedkin, Morris Enton, Ph.D. Washington Univ. Med. School, Dept. of Pharmacology, St. Louis 10, Mo. *Asst. Prof. of Pharmacology.* (2, 1951)

Friedman, Maurice H., Ph.D., M.D. 2040 Belmont Rd., Washington 9, D. C. (1, 1929)

Friedman, Meyer, M.D. Harold Brunn Inst. for Cardiovascular Research, Mt. Zion Hospital, 2200 Post St., San Francisco, Calif. *Director.* (1, 1947)

Friedman, M. H. F., Ph.D. Jefferson Med. College of Philadelphia, 1025 Walnut St., Philadelphia, Pa. *Assoc. Prof. of Physiology.* (1, 1941)

Friedman, Nathan B., M.D. Cedars of Lebanon Hospital, Div. of Labs., 4833 Fountain Ave., Los Angeles, Calif. *Dir., Div. of Labs.* (4, 1942)

Friedman, Sydney M., M.D., Ph.D. Univ. of British Columbia, Vancouver, B.C., Canada. *Prof. of Anatomy.* (1, 1947)

Friedman, Townsend B. Children's Memorial Hospital, Chicago, Ill. *Attending Allergist.* (6, 1948)

Fritz, James C., B.S. Dawe's Manufacturing Co., 4800 S. Richmond St., Chicago 32, Ill. *Dir. of Nutrition Research.* (5, 1951)

Frost, Douglas Van Anden, Ph.D. Abbott Labs., N. Chicago, Ill. *Head of Nutritional Research.* (2, 1946; 5, 1947)

Fruton, J. S., Ph.D. Yale School of Medicine, 333 Cedar St., New Haven, Conn. *Prof. of Biochemistry.* (2, 1938)

Fugo, Nicholas W., Ph.D. Univ. of Chicago, Dept. of Obstetrics and Gynecology, Chicago, Ill. (3, 1944)

Fuhrman, Frederick A., Ph.D. Stanford Univ., Stanford Univ., Calif. *Asst. Prof. of Physiology.* (1, 1946)

Fukushima, David K., Ph.D. Sloan-Kettering Inst. for Cancer Research, 444 East 68th St., New York City 21. *Assoc.* (2, 1952)

Fulton, George P., Ph.D. Boston Univ., Dept. of Biology, 675 Commonwealth Ave., Boston, Mass. *Asst. Prof.* (1, 1950)

Fulton, John Farquhar, Ph.D., M.D. Yale Univ. School of Medicine, New Haven, Conn. *Sterling Prof. of Physiology.* (1, 1925)

Funk, Casimir, D.Sc., Ph.D. 186 Riverside Drive, New York City 24. (2, 1921)

Fuortes, M. G. F., M.D. Army Med. Service Grad. School, Walter Reed Army Med. Center, Neuropsychiatry Div., Washington 12, D. C. *Research Worker.* (1, 1952)

Furchgott, Robert F., Ph.D. Washington Univ. School of Medicine, Euclid Ave. and Kingshighway, St. Louis 10, Mo. *Assoc. Prof. of Pharmacology.* (2, 1948; 3, 1952)

Furth, Jacob, M.D. Oak Ridge Natl. Lab., Oak Ridge, Tenn. *Chief of Pathology Section, Div. of Biology.* (4, 1932)

Gaddum, John H., ScD., F.R.S. Univ. of Edinburgh, Edinburgh, Scotland. *Prof. of Pharmacology.* (3, 1950)

Gaebler, Oliver H., Ph.D., M.D. Henry Ford Hospital, Detroit, Mich. *Head, Dept. of Biochemistry, Edsel B. Ford Inst. for Med. Research.* (2, 1927)

Gaffron, Hans, Ph.D. Univ. of Chicago, Inst. of Radiobiology and Biophysics, 5650 Ellis Ave., Chicago 37, Ill. *Prof. of Biochemistry, Dept. of Biochemistry and Inst. of Radiobiology and Biophysics.* (2, 1941)

Gagge, A. Pharo, Ph.D., HQ, USAF, Directorate of Research and Development, Human Factors Div., Washington 25, D. C. *Chief of Div.; Col. USAF.* (1, 1939)

Galambos, Robert, Ph.D., M.D. Army Med. Service Grad. School, Div. of Neuropsychiatry, Washington 12, D. C. (1, 1942)

Galdston, Morton, M.D. Goldwater Memorial Hospital, New York Univ. Research Service, Welfare Island, New York City 17. *Instr. in Medicine; Research Assoc.* (1, 1950)

Gall, Edward A., M.D. Cincinnati General Hospital, Cincinnati, Ohio. *Mary M. Emery Prof. of Pathology, Univ. of Cincinnati College of Medicine.* (4, 1941)

Gallagher, Thomas F., Ph.D. Sloan-Kettering Inst., 444 E. 68th St., New York City 21. *Member.* (2, 1932)

Gallup, Willis D., Ph.D. Oklahoma Agricultural and Mechanical College, Stillwater. *Chemist and Prof. of Agricultural Chemistry.* (2, 1932)

Gamble, James L., M.D., S.M. 33 Edgehill Rd., Brookline, Mass. *Prof. Emeritus of Pediatrics, Harvard Med. School.* (2, 1922; 5, 1933)

Gantt, W. Horsley, M.D. Johns Hopkins Hospital, Phipps Psychiatric Clinic, Baltimore, Md. *Assoc. in Psychiatry.* (1, 1935)

Garb, Solomon, M.D. Cornell Univ. Med. College, Dept. of Pharmacology, 1300 York Ave., New York City 21. *Instr.* (3, 1951)

Garbat, Abraham L., M.D. 103 E. 78th St., New York City. *Dir., Med. Service, Lenox Hill Hos-*

pital; Clin. Prof. of Medicine, New York Univ. Med. School. (**6,** 1913)

Gardner, Ernest, M.D. Wayne Univ. College of Medicine, 1512 St. Antoine St., Detroit 26, Mich. *Asst. Prof. of Anatomy.* (**1,** 1949)

Garner, Raymond L., Ph.D. Univ. of Michigan Med. School, 220 W. Med. Bldg., Ann Arbor. *Assoc. Prof. of Biological Chemistry.* (**2,** 1947)

Gasser, Herbert S., A.M., M.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Dir. of Labs.* (**1,** 1915; **3,** 1924)

Gassner, Frank X., M.S., D.V.M. Colorado A and M College, Fort Collins. *Prof. of Endocrine Research, Colorado State Exper. Station.* (**1,** 1947)

Gates, Olive, M.D. Cancer Comm. of Harvard Univ., Lab. of Pathology, 194 Pilgrim Rd., Boston, Mass. *Assoc. Pathologist.* (**4,** 1940)

Gaudino, Mario, M.D., Ph.D. 27 W. 9th St., New York City 11. *Research Assoc., New York Univ.-Bellevue Med. Center.* (**1,** 1951)

Gaunt, Robert, Ph.D. Ciba Pharmaceutical Products, Inc., Summit, N. J. (**1,** 1939)

Gay, Leslie N., M.D. 1114 St. Paul St., Baltimore, Md. *Dir. of Allergy Clinic, Johns Hopkins Hospital; Assoc. Prof. of Medicine, Johns Hopkins Univ.* (**6,** 1927)

Geiger, Ernest, M.D., Ph.D. 3842 Monteith Dr., Los Angeles 43, Calif. *Prof. of Pharmacology and Toxicology, Univ. of Southern California Med. School, Los Angeles; Advisor in Nutrition, Van Camp Seafood Co., Terminal Island.* (**5,** 1950)

Geiling, E. M. K., M.D., Ph.D. Univ. of Chicago, Chicago 37, Ill. *Chairman of Dept. of Pharmacology.* (**1,** 1933; **2,** 1927; **3,** 1925)

Gelfan, Samuel, Ph.D. 1249 Fifth Ave., New York City 29. *Research Assoc. in Neurology and Neurosurgery, New York Med. College.* (**1,** 1930)

Gellhorn, Alfred, M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. Prof. of Clin. Cancer Research, Dept. of Medicine.* (**3,** 1946)

Gellhorn, Ernst, M.D., Ph.D. Univ. of Minnesota, Room 116, Med. Sciences, Minneapolis. *Prof. of Neurophysiology.* (**1,** 1930)

Gemmill, Chalmers L., M.D. Univ. of Virginia Med. School, Charlottesville. *Prof. of Pharmacology.* (**1,** 1928; **2,** 1935; **3,** 1946)

Gerard, R. W., Ph.D., M.D. Univ. of Illinois Med. School, 912 S. Wood St., Chicago 12, Ill. *Prof. of Neurophysiology and of Physiology.* (**1,** 1927)

Gergely, John, M.D., Ph.D. Massachusetts General Hospital, Cardiovascular Research Lab., Boston. *Established Investigator, Am. Heart Assn.; Research Assoc. in Medicine, Harvard Med. School.* (**2,** 1952)

Gerheim, Earl B., Ph.D. Univ. of Detroit Div., of Basic Sciences, 630 E. Jefferson, Detroit 26, Mich. *Asst. Prof.* (**1,** 1950; **6,** 1950)

Gersh, Isadore, Ph.D. Univ. of Chicago, Chicago 37, Ill. *Assoc. Prof. of Anatomy.* (**4,** 1947)

Gersten, Jerome W., M.S., M.D. Univ. of Colorado Med. Center, 4200 E. 9th Ave., Denver 7. *Asst. Prof. of Physical Medicine and Rehabilitation.* (**1,** 1951)

Gerstenberger, Henry John, M.D. Western Reserve Univ. School of Medicine, Cleveland, Ohio. *Prof. Emeritus of Pediatrics; Dir. of Pediatrics, Babies and Children's Hospital.* (**5R,** 1938)

Gesell, Robert, M.D. Univ. of Michigan, Ann Arbor. *Prof. of Physiology.* (**1,** 1913)

Gest, Howard, Ph.D. Western Reserve Univ., School of Medicine, Dept. of Microbiology, Cleveland 6, Ohio. *Asst. Prof.* (**2,** 1952)

Gettler, Alexander O., Ph.D. 400 E. 29th St., New York City 16. *Prof. Emeritus of Chemistry New York Univ.; Toxicologist to Chief Med. Examiner's Office of the City of New York.* (**2,** 1916)

Gey, George Otto, M.D. Johns Hopkins Univ., Baltimore, Md. *Asst. Prof. of Surgery.* (**1,** 1940)

Geyer, Robert P., Ph.D. Harvard School of Public Health, Dept. of Nutrition, Boston, Mass. *Asst. Prof.* (**5,** 1950)

Gibbard, J., M.Sc. Dept. of Natl. Health and Welfare, Ottawa, Ont., Canada. *Chief, Lab. of Hygiene.* (**6,** 1946)

Gibbs, Frederick Andrews, M.D. 720 N. Michigan Ave., Suite 610. Chicago, Ill. (**1,** 1935)

Gibbs, Owen Stanley, M.D. P. O. Box 5387, Whitehaven, Memphis 16, Tenn. *Dir., Gibbs Med. Research Lab.* (**3,** 1930)

Gibson, Robert Banks, Ph.D. Univ. Hospital, Iowa City, Iowa. *Prof. of Biochemistry, State Univ. of Iowa.* (**2,** 1906)

Gies, William John, Ph.D. Columbia Univ., 630 W. 168th St., New York City. *Retired Prof. of Biological Chemistry.* (**1R,** 1898; **2,** 1906; **3R,** 1909)

Gillis, Marvin B., Ph.D. International Minerals and Chemical Corp., Skokie, Ill. *Supervisor, Biological Research.* (**5,** 1952)

Gilman, Alfred, Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Prof. of Pharmacology.* (**1,** 1935; **3,** 1934)

Gilson, Arthur S., Jr., Ph.D. Washington Univ. Med. School, St. Louis, Mo. *Assoc. Prof. of Physiology.* (**1,** 1927)

Ginsberg, Harold S., M.D. Western Reserve Univ. School of Medicine, Dept. of Preventive Medicine, Cleveland 6, Ohio. (**6,** 1951)

Githens, Thomas S., M.D. The Cambridge-Alden Park, Wissahickon and School Lane, Germantown, Philadelphia, Pa. (**1R,** 1915)

Givens, Maurice H., Ph.D. Box 5116, Biltmore, N. C. (**1,** 1917; **2,** 1915)

Gjessing, Erland C., Ph.D. 36 Holbrook St.,

Jamaica Plain, Boston, Mass. *Research Assoc., Dept. of Physiological Chemistry, Harvard Med. School.* (**2,** 1948)

Glass, Howard G., Ph.D. 514 Wesley Ave., Oak Park, Ill. (**3,** 1947)

Glazko, Anthony J., Ph.D. Parke, Davis and Co., Research Labs., Detroit 32, Mich. *Research Biochemist.* (**1,** 1942)

Glick, David, Ph.D. Univ. of Minnesota, 225 Med. Sciences Bldg., Minneapolis 14. *Prof. of Physiological Chemistry.* (**2,** 1936)

Glickman, Nathaniel, M.S. 6936 Byron Ave., Miami Beach, Fla. (**1,** 1947)

Gochenour, William S., Jr., V.M.D. Army Med. Center, Army Med. Service Grad. School, Veterinary Div., Washington 12, D. C. *Chief, Dept. of Veterinary Bacteriology.* (**6,** 1950)

Goebel, Walther F., Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Member.* (**2,** 1929; **6,** 1937)

Goettsch, Marianne, Ph.D. Univ. of Puerto Rico Med. School, San Juan. *Asst. Prof. of Biochemistry and Nutrition.* (**2,** 1933; **5,** 1941)

Goetzl, Franz R., Ph.D., M.D. 2622 Piedmont Ave., Berkeley 4, Calif. (**1,** 1947)

Gold, Harry, M.D. Cornell Univ. Med. College, New York City. *Prof. of Clin. Pharmacology.* (**3,** 1927)

Goldbaum, Leo R., Ph.D. Army Med. Service Grad. School, Walter Reed Army Med. Center, Washington 12, D. C. *Chief, Toxicology Section.* (**3,** 1952)

Goldblatt, Harry, M.D. Cedars of Lebanon Hospital, Los Angeles, Calif. *Dir., Inst. for Med. Research.* (**1,** 1945; **4,** 1927)

Golden, Alfred, M.D. Veterans Admin. Hosp., Buffalo, N. Y. *Chief of Lab. Service; Lecturer in Pathology, Univ. of Buffalo School of Medicine.* (**4,** 1947)

Goldfarb, Walter, M.D. 25 E. 86th St., New York City. (**1,** 1938)

Goldfeder, Anna, D.Sc. 444 E. 52nd St., New York City 22. *Sr. Biologist in Charge of Cancer Research, Dept. of Hospitals, City of New York; Research Assoc., Dept. of Biology, New York Univ.* (**1,** 1950)

Goldforb, A. J., Ph.D. College of the City of New York, New York City. *Prof. of Biology.* (**1,** 1930)

Goldie, Horace, M.D., D.T.M. Meharry Med. College, Cancer Research Lab., Nashville 8, Tenn. (**6,** 1943)

Goldin, Abraham, Ph.D. Marine Hospital, Natl. Cancer Inst., Clinical Research Unit, Baltimore, Md. *Biologist.* (**1,** 1951)

Goldman, David E., Ph.D. Naval Med. Research Inst., Biophysics Div., Bethesda 14, Md. *Lt. Cdr., MSC, USN; Head of Div.* (**1,** 1951)

Goldring, William, M.D. New York Univ. College of Medicine, 477 First Ave., New York City. *Assoc. Prof. of Medicine.* (**1,** 1939)

Goldsmith, E. D., Ph.D. New York Univ., 477 First Ave., New York City 16. *Assoc. Prof. of Anatomy, Grad. School of Arts and Sciences; Assoc. Prof. of Histology and Research Coordinator, College of Dentistry.* (**1,** 1950)

Goldsmith, Grace A., M.D. Tulane Univ. of Louisiana, New Orleans. *Prof. of Medicine.* (**5,** 1943)

Goldstein, Avram, M.D. Harvard Med. School, Boston, Mass. *Assoc. in Pharmacology.* (**3,** 1948)

Gollan, Frank, M.D. Veterans Admin. Hospital, Research Lab., Nashville, Tenn. (**1,** 1950)

Golub, Orville Joseph, Ph.D. Bio-Service Labs., Inc., 10717 Venice Blvd., Los Angeles 24, Calif. *Associate.* (**6,** 1944)

Gomori, George, M.D., Ph.D. Univ. of Chicago, Chicago, Ill. *Prof. of Medicine.* (**4,** 1948)

Goodale, Walter T., M.D. 99 Pine Ridge Rd., Waban, Mass. *Research Fellow, Harvard Med. School; Asst. in Medicine, Peter Bent Brigham Hospital.* (**1,** 1949)

Goodman, Louis Sanford, M.S., M.D. Univ. of Utah School of Medicine, Salt Lake City. *Prof. of Pharmacology and Chairman of Dept. of Pharmacology.* (**1,** 1946; **3,** 1937)

Goodner, Kenneth, Ph.D. Jefferson Med. College, Philadelphia, Pennsylvania. *Prof. of Bacteriology.* (**6,** 1932)

Goodpasture, Ernest William, M.D. Vanderbilt Univ. Med. School, Nashville, Tenn. *Prof. of Pathology.* (**4,** 1923)

Goranson, Ewald S., Ph.D. Univ. of British Columbia, Dept. of Biology and Botany, Vancouver, Canada. *Assoc. Prof. of Physiology.* (**1,** 1952)

Gordon, Albert S., Ph.D. New York Univ., Washington Square College of Arts and Sciences, New York City. *Assoc. Prof. of Biology.* (**1,** 1942)

Gordon, Francis B., M.D. Camp Detrick, Chemical Corps, Biology Labs., Frederick, Md. *Chief of MM Div.* (**4,** 1947)

Gordon, Harry H., M.D. Sinai Hospital of Baltimore, Monument St. and Rutland Ave., Baltimore 5, Md. *Pediatrician-in-Chief.* (**5,** 1940)

Gordon, Irving, M.D. New York State Dept. of Health, Div. of Labs and Research, New Scotland Ave., Albany 1. *Assoc. Med. Bacteriologist; Assoc. Prof. of Medicine and Bacteriology, Albany Med. College.* (**6,** 1943)

Gordon, William G., Ph.D. U. S. Dept. of Agriculture, Eastern Regional Research Lab., Philadelphia 18, Pa. *Sr. Chemist.* (**2,** 1939)

Gorham, John R., D.V.M. Univ. of Wisconsin, Dept. of Veterinary Science, Madison 6. *Agent in Charge (on leave), Fur Animal Disease Station, USDA, Pullman, Wash.* (**6,** 1952)

Gortner, Ross Aiken, Jr., Ph.D. Wesleyan Univ.,

Shanklin Lab., Middletown, Conn. *Prof. of Biochemistry.* (**5,** 1947)

Gortner, Willis A., Ph.D. Pineapple Research Inst. of Hawaii, Honolulu, T. H. *Head of Dept. of Chemistry.* (**2,** 1947)

Goss, Harold, Ph.D. Univ. of California College of Agriculture, Davis. *Prof. of Animal Husbandry.* (**2,** 1936; **5,** 1933)

Goth, Andres, M.D. Southwestern Med. College, 2211 Oak Lawn Ave., Dallas 4, Tex. *Assoc. Prof. of Pharmacology.* (**3,** 1947)

Gottschall, Russell Y., Ph.D. Michigan Dept. of Health, Bureau of Labs., Lansing. *Bacteriologist.* (**6,** 1939)

Goudsmit, Arnoldus, Jr., M.D., Ph.D. 4141 Windsor Rd., Youngstown 7, Ohio. (**1,** 1940)

Gould, R. Gordon, Ph.D. Los Alamos Scientific Lab., Los Alamos, N. M. *Staff Member, Health Div.* (**2,** 1949)

Gourley, Desmond R. H., Ph.D. Univ. of Virginia Med. School, Dept. of Pharmacology, Charlottesville. *Asst. Prof.* (**1,** 1951)

Govier, William M., M.D. Upjohn Co., Research Div., Kalamazoo 99, Mich. *Sr. Pharmacologist.* (**3,** 1944)

Gowdey, Charles W., Ph.D. Univ. of Western Ontario Med. School, Dept. of Pharmacology, London, Ontario, Canada. *Asst. Prof.* (**3,** 1950)

Grabfield, G. Philip, M.D. 27 Forest St., Milton, Mass. *Retired.* (**3R,** 1923)

Grady, Hugh G., M.D. Armed Forces Inst. of Pathology, Washington, D. C. *Scientific Dir., American Registry of Pathology.* (**4,** 1940)

Graef, Irving, M.D. New York Univ., Post-Grad. Med. School, New York City. *Assoc. Prof. of Clin. Medicine.* (**4,** 1941)

Graham, Claire E., Ph.D. Wilson Labs., 4221 S. Western Ave., Chicago, Ill. *Dir. of Research.* (**2,** 1948; **5,** 1951)

Graham, Clarence H., Ph.D. Columbia Univ., New York City 27. *Prof. of Psychology.* (**1,** 1933)

Graham, Helen Tredway, Ph.D. Euclid Ave. and Kingshighway, St. Louis, Mo. *Assoc. Prof. of Pharmacology, Washington Univ. School of Medicine.* (**1,** 1933; **3,** 1931)

Graham, John Borden. Univ. of North Carolina, Chapel Hill. *Asst. Prof. of Pathology.* (**4,** 1952)

Granick, S., Ph.D. Rockefeller Inst. for Med. Research, York Ave. at 66th St., New York City 21. *Assoc. Member.* (**2,** 1949)

Grant, E. Rhoda, Ph.D. Univ. of Illinois Med. College, Clinical Science Dept., 1853 West Polk St., Chicago 12, Ill. *Researcher in Clin. Science.* (**1,** 1949)

Grant, R. Lorimer, Ph.D. Federal Security Agency, Food and Drug Admin., Div. of Pharmacology, Washington 25, D. C. *Pharmacologist.* (**2,** 1938)

Grant, Ronald, Ph.D. Stanford Univ., Dept. of Physiology, Stanford, Calif. *Asst. Prof. (Acting).* (**1,** 1950)

Grant, Wilson Clark, Ph.D. Lederle Labs. Div., American Cyanamid Co., Pearl River, N. Y. (**1,** 1949)

Grau, Charles R., Ph.D. Univ. of California, Div. of Poultry Husbandry, Berkeley 4. *Asst. Prof. of Poultry Husbandry and Asst. Poultry Husbandman in Exper. Station.* (**5,** 1949)

Graubard, Mark, Ph.D. Univ. of Minnesota, Dept. of Physiology, Minneapolis. (**1,** 1940)

Grauer, Robert C., M.D. Allegheny General Hospital, Pittsburgh, Pa. *Dir. of William H. Singer Memorial Research Lab.; Asst. Prof. of Medicine, School of Medicine, Univ. of Pittsburgh.* (**4,** 1941)

Gray, Edward LeB., Ph.D. Med. Labs., Army Chemical Center, Md. *Research Biochemist.* (**1,** 1951)

Gray, John S., Ph.D., M.D. Northwestern Univ. Med. School, 303 E. Chicago Ave., Chicago 11, Ill. *Prof. and Chairman of Dept. of Physiology.* (**1,** 1937)

Gray, M. Geneva, Ph.D. Labs. of Arthur D. Little Inc., Cambridge, Mass. *Dir., Lab. of Industrial Toxicity.* (**3,** 1946)

Gray, Stephen W., Ph.D. Emory Univ. School of Medicine, Emory Univ., Ga. *Asst. Prof. of Anatomy.* (**1,** 1948)

Graybiel, Ashton, M.D. U. S. Naval School of Aviation Medicine and Research, Naval Air Station, Pensacola, Fla. *Coordinator of Research.* (**1,** 1948)

Greaves, J. D., Ph.D. USDA, Western Regional Research Lab., 800 Buchanan St., Albany 6, Calif. *Biochemist.* (**2,** 1938)

Greaves, Joseph Dudley, Ph.D. 1011 S.W. Crest Ave., Portland 1, Ore. (**2,** 1940)

Greeley, Paul O., Ph.D., M.D. Univ. of Southern California Med. School, Univ. Park, Los Angeles. *Dir., Student Health Service.* (**1,** 1940)

Green, Arda Alden, M.D. Cleveland Clinic, Research Div., Euclid and E. 93rd St., Cleveland 6, Ohio. (**2,** 1932)

Green, Daniel M., M.D. 1252 S. Central Ave., Glendale 4, Calif. *Assoc. Clin. Prof., Univ. of Southern California, School of Medicine, Los Angeles.* (**1,** 1948; **3,** 1942)

Green, David E., Ph.D. Univ. of Wisconsin, Inst. of Enzyme Research, 1702 University Ave., Madison 5. *Prof. of Enzyme Chemistry.* (**2,** 1941)

Green, Harold David, M.D. Wake Forest College, Bowman Gray School of Medicine, Winston-Salem 7, N. C. *Prof. and Dir. of Dept. of Physiology and Pharmacology.* (**1,** 1936; **3,** 1945)

Green, Ray E., M.D. Univ. of Kansas Med. Center, Kansas City 12. *Assoc. Prof. of Pharmacology.* (**3,** 1952)

Green, Robert Holt. Yale Univ. School of Medi-

cine, 333 Cedar St., New Haven, Conn. *Asst. Prof. of Medicine.* (**6,** 1949)

Greenberg, David Morris, Ph.D. Univ. of California, Berkeley 4. *Prof. and Chairman, Dept. of Physiological Chemistry, School of Medicine.* (**2,** 1927)

Greenberg, G. Robert, Ph.D. Western Reserve Univ., School of Medicine, Cleveland 6, Ohio. *Asst. Prof. of Biochemistry.* (**2,** 1952)

Greenberg, Louis D., Ph.D. Univ. of California Med. Center, 3rd and Parnassus Aves., San Francisco 22. *Assoc. Prof. of Pathology, Univ. of California Med. School.* (**2,** 1946)

Greenberg, Ruven, Ph.D. Univ. of Texas Med. Branch, Dept. of Physiology, Galveston. *Asst. Prof.* (**1,** 1950)

Greene, Carl Hartley, Ph.D., M.D. 401 Clinton Ave., Brooklyn 5, N. Y. *Assoc. Clin. Prof. of Medicine, New York Univ. Post-Grad. Med. School.* (**1,** 1921; **2,** 1922; **4,** 1924)

Greene, Harry S. N., M.D., C.M. Yale Univ. School of Medicine, Dept. of Pathology, New Haven, Conn. *Anthony N. Brady Prof. of Pathology.* (**4,** 1937)

Greene, James Alexander, M.D. Baylor Univ. College of Medicine, Buffalo Drive, Houston, Tex. *Prof. and Chairman of Dept. of Internal Medicine and Dean of Clin. Faculty.* (**1,** 1939)

Greene, Ronald R., M.D. Northwestern Univ. Med. School, 303 E. Chicago Ave., Chicago Ill. *Assoc. Prof. of Obstetrics and Gynecology.* (**1,** 1941)

Greengard, Harry, Ph.D., M.D. Northwestern Univ. Med. School, 303 E. Chicago Ave., Chicago, Ill. *Asst. Prof. of Physiology.* (**1,** 1939)

Greenstein, Jesse P., Ph.D. Natl. Cancer Inst., Bethesda, Md. *Chief Biochemist.* (**2,** 1935)

Greenwald, Isidor, Ph.D. New York Univ. College of Medicine, 477 First Ave., New York City. *Prof. of Chemistry.* (**2,** 1912; **5,** 1933)

Greenwood, Delbert A., Ph.D. Utah State Agricultural College, Box 163, Logan. *Prof. of Biochemistry.* (**3,** 1950)

Greep, Roy O., Ph.D. Harvard School of Dental Medicine, 188 Longwood Ave., Boston 15, Mass. *Prof. of Dental Science.* (**1,** 1940)

Greer, C. M., M.S. Vanderbilt Univ. School of Medicine, Nashville, Tenn. *Instr. in Chemistry.* (**3,** 1938)

Gregersen, Magnus I., Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Prof. of Physiology.* (**1,** 1933)

Gregg, Donald Eaton, Ph.D., M.D. Army Med. Service Grad. School, Army Med. Center, Washington 12, D. C. (**1,** 1933)

Gregory, John E., Hahnemann Med. College, Philadelphia, Pa. *Prof. of Pathology.* (**6,** 1948)

Gregory, Raymond L., Ph.D., M.D. Univ. of Texas School of Medicine, 816 Strand, Galveston. *Prof. of Medicine.* (**1,** 1945)

Greig, Margaret E., Ph.D. Vanderbilt Univ. School of Medicine, Nashville 4, Tenn. *Assoc. Prof. of Pharmacology.* (**3,** 1946)

Greiner, Theodore H., M.D. Cornell Univ. Med. College, Dept. of Pharmacology, 1300 York Ave., New York City 21. *Instr.* (**3,** 1951)

Greisheimer, Esther M., Ph.D. M.D. Temple Univ. Med. School, 3400 N. Broad St., Philadelphia, Pa. *Prof. of Physiology.* (**1,** 1925)

Grenell, Robert G., Ph.D. Univ. of Maryland, School of Medicine, Psychiatric Inst., Baltimore 1. (**1,** 1945)

Griffin, A. Clark, Ph.D. Stanford Univ., Dept. of Biochemistry, Stanford, Calif. *Assoc. Prof.* (**2,** 1950)

Griffin, Angus, Ph.D. George Washington Univ. School of Medicine, 1335 H St., N. W., Washington, D. C. *Assoc. Prof. of Bacteriology.* (**6,** 1940)

Griffin, Donald R., Ph.D. Cornell Univ., Dept. of Zoology, Ithaca, N. Y. *Assoc. Prof.* (**1,** 1951)

Griffith, Fred R., Jr., Ph.D. Univ. of Buffalo Med. School, 24 High St., Buffalo, N. Y. *Prof. of Physiology.* (**1,** 1923; **5,** 1933)

Griffith, Wendell H., Ph.D. Univ. of California Med. Center, School of Medicine, Dept. of Physiological Chemistry, Los Angeles 24. *Chairman of Dept.* (**2,** 1923; **5,** 1934)

Griffitts, James J., M.D. Blood Bank of Dade County, 1800 NW 10th Ave., Miami 36, Fla. *Assoc. Dir.* (**6,** 1952)

Grimson, Keith S., M.D. Duke Univ. School of Medicine, Durham, N. C. *Prof. of Surgery.* (**1,** 1943; **3,** 1949)

Grindlay, John H., M.D. Mayo Clinic, Rochester, Minn. (**1,** 1945)

Grisolia, Santiago, M.D. Univ. of Wisconsin, Dept. of Physiological Chemistry, Madison 6. *Asst. Prof.* (**2,** 1952)

Groat, Richard A., Ph.D. Mayo Clinic, Rochester, Minn. *Assoc. Prof. of Anatomy, Mayo Fndn.* (**1,** 1945)

Grob, David, M.D. Johns Hopkins Hospital, Dept. of Medicine, Baltimore 5, Md. *Instr. in Medicine, Johns Hopkins Univ. School of Medicine.* (**1,** 1951)

Grodins, Fred S., Ph.D., M.D. Northwestern Univ. Med. School, 303 E. Chicago Ave., Chicago 11, Ill. *Assoc. Prof. of Physiology.* (**1,** 1945)

Grollman, Arthur, M.D., Ph.D. Southwestern Med. College, 2211 Oak Lawn Ave., Dallas, Tex. *Prof. of Pharmacology and Medicine.* (**1,** 1928; **3,** 1933)

Groschke, Albert C., Ph.D. The Borden Co., 350 Madison Avenue, New York City. *Technical Dir., Feed Supplements Dept.* (**5,** 1952)

Gross, Erwin G., Ph.D., M.D. State Univ. of Iowa,

Med. Labs., Iowa City. *Prof. of Pharmacology.* (**1,** 1927; **2,** 1923; **3,** 1927)

Gross, J., M.D., C.M., Ph.D. State Univ. of New York Med. Center at New York, College of Medicine, 350 Henry St., Brooklyn 2. (**1,** 1950)

Gross, Robert E., M.D. Children's Hosp., 300 Longwood Ave., Boston 15, Mass. *Surgeon-in-Chief; Ladd Prof. of Children's Surgery, Harvard Med. School.* (**4,** 1940)

Grossman, Morton Irvin, Ph.D., M.D. Univ. of Illinois College of Medicine, Chicago 12. *Assoc. Prof. of Physiology.* (**1,** 1946)

Groupé, Vincent, Ph.D. Rutgers Univ., Dept. of Microbiology, New Jersey Agricultural Exper. Station, New Brunswick. *Assoc. Prof. in Animal Diseases.* (**6,** 1946)

Grubbs, Robert C., M.Sc., M.D. Ohio State Univ., Columbus. *Assoc. Prof. of Physiology.* (**1,** 1950)

Gruber, Charles M., M.D., Ph.D. Jefferson Med. College, 1025 Walnut St., Philadelphia, Pa. *Prof. of Pharmacology,* (**1,** 1914; **3,** 1919)

Gruber, Charles M., Jr., M.D. Jefferson Med. College Hospital, Philadelphia, Pa. *Assoc. Prof. of Pharmacology.* (**3,** 1948)

Gruhzit, Oswald M., M.D. 580 Hampton Rd., Grosse Pointe 30, Mich. *Research in Pathology and Pharmacology.* (**4,** 1928)

Grundfest, Harry, Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. in Neurology.* (**1,** 1932)

Gubler, Clark J., Ph.D. Univ. of Utah College of Medicine, Dept. of Medicine, 175 E. 21st St. South, Salt Lake City. *Research Assoc. in Medicine, Research Instr. in Biochemistry.* (**5,** 1951)

Gudernatsch, Frederick, Ph.D., ScD. 1300 York Ave., New York City 21. *Retired.* (**1,** 1930)

Guerra, Francisco, M.Sc., M.D. Facultad de Medicina, Univ. Nacional de Mexico, Mexico, D. F. *Prof. Titular of Pharmacology.* (**3,** 1947)

Guerrant, N. B., Ph.D. Pennsylvania State College, State College. *Prof. of Biological Chemistry.* (**2,** 1934; **5,** 1933)

Guest, George Martin, M.S., M.D. Children's Hospital, Cincinnati 29, Ohio. *Prof. of Pediatrics, Univ. of Cincinnati College of Medicine and Grad. School.* (**2,** 1933)

Guest, Maurice Mason, Ph.D. Univ. of Texas, Med. Branch, Dept. of Physiology, Galveston. (**1,** 1946)

Guillemin, Victor, Jr., Ph.D. Univ. of Illinois, College of Medicine, 1853 W. Polk St., Chicago 12. *Prof. of Biophysics.* (**1,** 1952)

Gulick, Addison, Ph.D. Concord Hall, Suite 62, Cambridge 38, Mass. (**1R,** 1915; **5R,** 1933)

Gunn, Francis D., M.D., Ph.D. Univ. of Utah School of Medicine, Salt Lake City. *Prof. and Head of Dept. of Pathology.* (**4,** 1938)

Gunsalus, Irwin C., Ph.D. Univ. of Illinois, 362 Noyes Lab., Urbana. *Prof. of Bacteriology.* (**2,** 1946)

Gurd, Frank Ross, Ph.D. 25 Shattuck St., Boston 15, Mass. *Asst. Prof. of Physical Chemistry, Harvard Univ.* (**2,** 1952)

Gurin, Samuel, Ph.D. Univ. of Pennsylvania School of Medicine, Philadelphia. *Prof. of Physiological Chemistry.* (**2,** 1938)

Gustavson, R. G., Ph.D. Univ. of Nebraska, Lincoln. *Chancellor.* (**2,** 1927)

Gustus, Edwin L., Ph.D. Bjorksten Research Lab., 13791 Ave. O, Chicago 33, Ill. *Vice President.* (**2,** 1934)

Guterman, Henry S., M.D. Michael Reese Hospital, Chicago 16, Ill. *Asst. Dir., Dept. of Metabolic and Endocrine Research* (**1,** 1949)

Guthrie, Charles Claude, M.D., Ph.D. 806 Hill Crest Ave., Columbia, Mo. *Prof. Emeritus of Physiology and Pharmacology, Univ. of Pittsburgh.* (**1R,** 1905; **3R,** 1909)

Gutman, Alexander B., M.D. Mt. Sinai Hospital, Fifth Ave. and 100th St., New York City 29. *Dir. of Med. Research and Physician; Prof. of Medicine, Columbia Univ. College of Physicians and Surgeons.* (**2,** 1947)

Gutmann, Helmut R., M.D. Veterans Admin. Hospital, Radioisotope Unit, Minneapolis 17, Minn. *Biochemist; Asst. Prof., Dept. of Physiological Chemistry, Univ. of Minnesota Med. School.* (**2,** 1952)

Guttman, Rita M., Ph.D. Brooklyn College, Brooklyn, N. Y. *Asst. Prof. of Physiology.* (**1,** 1946)

Guyton, Arthur C., M.D. Univ. of Mississippi School of Medicine, Dept. of Physiology, University. *Chairman, Dept. of Physiology.* (**1,** 1949)

György, Paul, M.D. Univ. of Pennsylvania School of Medicine, 3400 Spruce St. Philadelphia 4. *Prof. of Nutrition.* (**2,** 1938; **5,** 1939)

Haag, Harvey B., M.D. Med. College of Virginia, Richmond. *Prof. of Pharmacology.* (**3,** 1934)

Haag, J. R., Ph.D. Oregon Agricultural Exper. Station, Corvallis. *Chemist.* (**2,** 1947; **5,** 1941)

Haas, Erwin, Ph.D. Cedars of Lebanon Hospital, Inst. for Med. Research, 4751 Fountain Ave., Los Angeles 27, Calif. *Asst. Dir.* (**2,** 1946)

Habel, Karl, M.D. Natl. Insts. of Health, Bethesda 14, Md. *Chief, Lab. of Infectious Diseases.* (**6,** 1952)

Haberman, Sol, Ph.D. Wm. Buchanan Blood Plasma and Serum Center, Baylor Hospital Dallas, Tex. *Chief of Bacteriology and Serology Services.* (**6,** 1944)

Hadidian, Zareh, Ph.D. Tufts College Med School, Boston, Mass. (**1,** 1945)

Hafkenschiel, Joseph H., Jr., M.D. 553 Heath Rd., Merion Station, Pa. *Assoc. in Medicine Instr. in Clin. Pharmacology, Univ. of Pennsylvania School of Medicine.* (**1,** 1950; **3,** 1952)

Hafkesbring, H. Roberta, Ph.D. Woman's Med. College of Pennsylvania, East Falls, Philadelphia. *Prof. of Physiology.* (**1,** 1931)

Haggard, Howard W., M.D. 4 Hillhouse Ave., New Haven, Conn. *Dir. of Lab. of Applied Physiology, Yale Univ.* (**1,** 1919; **2,** 1920)

Hahn, Paul F., Ph.D. Meharry Med. College, Nashville, Tenn. *Dir. of Cancer Research Labs.; Prof. of Exper. Oncology.* (**1,** 1946; **4,** 1939)

Haig, Charles, Ph.D. New York Med. College, Fifth Ave. at 105th St., New York City. *Assoc. Prof. of Physiology and Biochemistry.* (**1,** 1942)

Haimovici, Henry, M.D., 105 E. 90th St., New York City 28. *Assoc. Attending Surgeon, Montefiore Hospital.* (**1,** 1950)

Haist, Reginald E., M.D., Ph.D. Univ. of Toronto, Toronto, Ontario, Canada. *Prof. of Physiology.* (**1,** 1943)

Halbert, Seymour P., M.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Ophthalmology, 630 W. 168th St., New York City 32. *Asst. Prof. of Bacteriology.* (**6,** 1947)

Haldi, John, Ph.D. Emory Univ. School of Dentistry, Emory University, Ga. *Prof. of Physiology.* (**1,** 1928)

Hale, Wm. M., M.D. Brookhaven Natl. Lab., Upton, L. I., N. Y. *Head, Div. of Bacteriology and Virology; Bacteriologist-in-Chief, Brookhaven Natl. Lab. Hosp.* (**4,** 1941; **6,** 1935)

Hale, Worth, M.D. Antrim, N. H. *Retired.* (**1R,** 1908; **3R,** 1908)

Haley, Thomas J., Ph.D. 12007 Thermo St., Los Angeles 34, Calif. *Chief, Div. of Pharmacology and Toxicology, A. E. Project, Med. School, Univ. of California.* (**3,** 1949)

Hall, Charles E., Ph.D. Univ. of Texas, Med. Branch, Dept. of Physiology, Galveston. *Assoc. Prof.; Consulting Endocrinologist, Med. Branch Hospitals.* (**1,** 1949)

Hall, F. G., Ph.D. Duke Univ. School of Medicine, Dept. of Physiology and Pharmacology, Durham, N.C. (**1,** 1937)

Hall, Victor E., M.A., M.D. 506 Hanley Pl., Los Angeles 49, Calif. *Prof. of Physiology, Univ. of California School of Medicine.* (**1,** 1934)

Hall, W. Knowlton, Ph.D. Med. College of Georgia, Univ. Place, Augusta. *Assoc. Prof. of Biochemistry.* (**2,** 1948)

Hallenbeck, George Aaron, Ph.D., M.D. Mayo Clinic, Rochester, Minn. *Research Assoc.* (**1,** 1946)

Halpert, Béla, M.D. Veterans Admin. Hospital, 2002 Holcombe Blvd., Houston 4, Texas. *Chief, Lab. Service; Assoc. Prof. of Pathology, Baylor Univ. College of Medicine.* (**4,** 1936)

Halstead, Ward C., Ph.D., Univ. of Chicago, Dept. of Medicine, Chicago, Ill. *Assoc. Prof. of Exper. Psychology, Div. of Psychiatry.* (**1,** 1942)

Ham, Arthur W., M.B. Univ. of Toronto, Toronto 5, Ontario, Canada. *Prof. of Anatomy in charge of Histology.* (**4,** 1939)

Hambourger, Walter E., Ph.D., M.D. G. D. Searle and Co., P.O. Box 5110, Chicago, Ill. *Chief Pharmacologist.* (**3,** 1934)

Hamilton, Bengt L. K., M.D. 14101 S. Woodland Rd., Shaker Heights, Ohio. *Med. Dir., USPHS.* (**2,** 1925)

Hamilton, Clara E., Ph.D. Univ. of Georgia, Dept. of Biology, Athens. *Asst. Prof. of Zoology.* (**1,** 1952)

Hamilton, James B., Ph.D. New York State Med. Center, Dept. of Anatomy, 350 Henry St., Brooklyn 2, N. Y. (**1,** 1938)

Hamilton, Paul B., M.D., Ph.D. Alfred I. duPont Inst., Nemours Foundation, Rockland Rd., Wilmington 99, Del. *Chief of Biochemistry.* (**2,** 1946)

Hamilton, Tom R., M.S., M.D. Kansas Univ. Med. Center, Kansas City 3. *Prof. of Microbiology and Pathology.* (**4,** 1950)

Hamilton, Tom S., Ph.D. Univ. of Illinois, 120 Animal Sciences Lab., Urbana. *Prof. of Animal Nutrition.* (**2,** 1937; **5,** 1938)

Hamilton, W. F., Ph.D. Med. College of Georgia, Augusta. *Prof. of Physiology.* (**1,** 1924)

Hammett, Frederick S., Ph.D. 493 Commercial St., Provincetown, Mass. *Sr. Member Emeritus, Lankenau Hospital Research Inst.* (**1R,** 1920; **2R,** 1917)

Hammon, William McD., M.D., Dr.P.H. Univ. of Pittsburgh, Pittsburgh, Pa. *Prof. of Epidemiology and Microbiology, Grad. School of Public Health.* (**4,** 1944; **6,** 1946)

Hampel, C. W., Ph.D. New York Univ.-Bellevue Medical Center, New York City. *Assoc. Prof. of Physiology.* (**1,** 1936)

Hamre, Dorothy, Ph.D. Univ. of Chicago, Dept. of Medicine, Chicago 37, Ill. (**6,** 1948)

Hanahan, Donald J., Ph.D. Univ. of Washington, Dept. of Biochemistry, Seattle 5. *Asst. Prof.* (**2,** 1952)

Hand, David B., Ph.D. New York State Agricultural Exper. Station, Geneva. *Head, Div. of Food Science and Technology and Prof. of Biochemistry.* (**2,** 1947)

Handler, Philip, Ph.D. Duke Univ. School of Medicine, Durham, N. C. *Prof. of Biochemistry and Nutrition.* (**2,** 1944; **5,** 1946)

Handley, Carroll A., Ph.D. Baylor Univ. College of Medicine, 1200 M.D. Anderson Blvd., Houston 5, Tex. *Prof. and Chairman of Dept. of Pharmacology.* (**3,** 1942)

Haney, Hance F., Ph.D., M.D. Univ. of Oregon Med. School, Portland. *Asst. Prof. of Medicine.* (**1,** 1939)

Hanger, Franklin, M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St.,

New York City 32. *Assoc. Prof. of Medicine.* (**6,** 1930)

Hanke, Martin E., Ph.D. Univ. of Chicago, 947 E. 58th St., Chicago, Ill. *Assoc. Prof. of Biochemistry.* (**2,** 1925)

Hanke, Milton Theo, Ph.D. 7550 S. Green St., Chicago, Ill. *Research Consultant, Biochemistry and Nutrition.* (**2,** 1919)

Hanks, John H., Ph.D. Harvard Univ. Med. School, Boston, Mass. *Dept. of Bacteriology; Bacteriologist of the Leonard Wood Memorial.* (**6,** 1935)

Hansen, Arild E., M.D. Univ. of Texas Med. School, Galveston. *Prof. and Chairman of Dept. of Pediatrics; Dir. of Univ. of Texas Child Health Program.* (**4,** 1941; **5,** 1942)

Hansen, Eder Lindsay, Ph.D. 561 Santa Barbara Rd., Berkeley 7, Calif. *Research Asst.* (**3,** 1951)

Hansen, Roger G., Ph.D. Univ. of Illinois, Dairy Science Dept., Urbana. *Assoc. Prof.* (**2,** 1952)

Hardenbergh, Esther, Sc.D. Natl. Naval Med. Center, Naval Med. Research Inst., Div. of Physiology, Bethesda 14, Md. *Head, Surgery Branch.* (**1,** 1951)

Hardy, James D., M.D. Univ. of Tennessee Med. College, Memphis. *Asst. Prof. of Surgery.* (**1,** 1951)

Hardy, James Daniel, Ph.D. Russell Sage Inst. of Pathology, 525 E. 68th St., New York City. *Research Assoc.* (**1,** 1939)

Hardy, Mary, D.Sc. The Brearley School, 610 E. 83rd St., New York City. *Teacher of Science.* (**1,** 1933)

Hare, Kendrick, Ph.D. Med. College of Alabama, Dept. of Pharmacology, Birmingham. (**1,** 1938)

Harford, Carl G., M.D. Washington Univ. School of Medicine, Dept. of Internal Medicine, St. Louis, Mo. *Assoc. Prof. of Medicine and Preventive Medicine.* (**6,** 1948)

Harger, R. N., Ph.D. Indiana Univ. School of Medicine, Indianapolis. *Prof. of Biochemistry and Toxicology; Chairman, Dept. of Biochemistry and Pharmacology.* (**2,** 1938; **3,** 1949)

Harkins, Henry N., Ph.D., M.D. Univ. of Washington School of Medicine, Seattle 5. (**1,** 1942)

Harman, John W., M.D. Univ. of Wisconsin Med. School, Dept. of Pathology, 426 N. Charter St., Madison. *Assoc. Prof.* (**4,** 1951)

Harmon, Paul M., Ph.D. Indiana Univ., Bloomington. *Prof. of Physiology.* (**1,** 1930)

Harne, O. G. Univ. of Maryland School of Medicine, Baltimore. *Assoc. Prof. of Anatomy; Asst. to the Dean.* (**1,** 1935)

Harned, Ben King, Ph.D. Mead Johnson & Co., Evansville 21, Ind. *Exec. Dir. of Research.* (**2,** 1931; **3,** 1941)

Harris, Albert H., M.D. N. Y. State Dept. of Health, Div. of Labs. and Research, New Scotland Ave., Albany 1. *Asst. Dir. for Local Labs.* (**6,** 1937)

Harris, Albert Sidney, Ph.D. Louisiana State Univ. School of Medicine, Dept. of Physiology, New Orleans 12. *Prof. and Chairman of Dept.* (**1,** 1939)

Harris, Milton, Ph.D. Harris Research Labs., 1246 Taylor St., N.W., Washington 11, D. C. *President.* (**2,** 1939)

Harris, Paul N., M.D. Eli Lilly and Company, Indianapolis, Ind. *Pathologist, Div. of Pharmacology.* (**3,** 1948)

Harris, Philip L., Ph.D. Distillation Products Ind., 755 Ridge Rd. W., Rochester 13, N. Y. *Head of Biochemistry Research Dept.; Assoc. in Physiology, Univ. of Rochester School of Medicine and Dentistry.* (**2,** 1946; **5,** 1945)

Harris, Robert S., Ph.D. Massachusetts Inst. of Technology, Cambridge. *Prof. of Nutritional Biochemistry.* (**5,** 1941)

Harris, S. C., Ph.D. Northwestern Univ. Dental School, 311 E. Chicago Ave., Chicago 12, Ill. *Assoc. Prof.; Chairman of Physiology and Pharmacology.* (**1,** 1947)

Harris, T. N., M.D. Childern's Hospital of Philadelphia, Philadelphia, Pa. *Assoc. in Pediatrics, Univ. of Pennsylvania.* (**6,** 1946)

Harris, William H., M.D. Tulane Univ. School of Medicine, New Orleans, La. *Assoc. Prof. of Pathology.* (**4,** 1925)

Harrison, Frank, Ph.D. Southwestern Univ. Med. School, Dallas 4, Texas. (**1,** 1941)

Harrison, James A., Ph.D. Temple Univ., Philadelphia 22, Pa. *Prof. of Biology.* (**6,** 1946)

Harrison, Ross Granville, M.D., Ph.D. Osborn Zoological Lab., New Haven, Conn. *Sterling Prof. Emeritus of Biology, Yale Univ.* (**1,** 1906)

Harrison, R. Wendell, M.D., Ph.D. 5541 Dorchester Ave., Chicago 37, Ill. *Prof. of Bacteriology; Dean of Faculties and Vice Pres., Univ. of Chicago.* (**6,** 1934)

Harrow, Benjamin, Ph.D. College of the City of New York, Convent Ave. and 139th St., New York City. *Prof. of Chemistry.* (**2,** 1927)

Hart, E. B., B.S. Univ. of Wisconsin, Madison. *Prof. Emeritus of Biochemistry.* (**2,** 1910; **5R,** 1933)

Hart, E. Ross, Ph.D. Med. Labs., Army Chemical Center, Md. *Chief, Neurology Branch.* (**3,** 1944)

Hart, William M., Ph.D. Temple Univ. Med. School, Broad and Ontario Sts., Philadelphia 40, Pa. *Asst. Prof. of Physiological Chemistry.* (**1,** 1945)

Hartline, H. K., M.D. Johns Hopkins Univ., Dept. of Biophysics, Baltimore 18, Md. (**1,** 1929)

Hartman, Arthur M., B.S. U. S. Dept. of Agriculture, Bureau of Dairy Industry, Div. of Nutri-

tion and Physiology, Beltsville, Md. *Biochemist.* (5, 1952)

Hartman, Carl G., Ph.D. Ortho Research Foundation, Raritan, N. J. *Dir. of Physiology.* (1, 1921)

Hartman, Frank Alexander, Ph.D. Ohio State Univ., Dept. of Physiology, Columbus. *Research Prof.* (1, 1916)

Hartman, F. W., M.D. Henry Ford Hospital, Detroit, Mich. *Pathologist and Dir. of Labs.* (4, 1927)

Hartmann, Alexis F., M.D. 500 S. Kingshighway, St. Louis, Mo. *Prof. of Pediatrics, Washington Univ. School of Medicine.* (2, 1932)

Hartroft, Walter Stanley, M.D., Ph.D. Univ. of Toronto, Banting and Best Dept. of Med. Research, Toronto 5, Ontario, Canada. *Assoc. Prof.* (4, 1950)

Harvey, A. McGehee, M.D. Johns Hopkins Hospital, Baltimore 5, Md. *Physician-in-Chief; Prof. of Medicine, Johns Hopkins Univ. Med. School.* (1, 1946; 3, 1946)

Harvey, E. Newton, Ph.D. Princeton Univ., Guyot Hall, Princeton, N. J. *Henry Fairfield Osborn Prof. of Biology.* (1, 1914; 2, 1916)

Harvey, Steward C., Ph.D. Univ. of Utah College of Medicine, Dept. of Pharmacology, Salt Lake City 1. *Asst. Prof.* (3, 1951)

Hass, George, M.D. Presbyterian Hospital of Chicago Chicago, Ill. *Prof. of Pathology, Univ. of Illinois College of Medicine; Chairman, Rusk Dept. of Pathology, Presbyterian Hospital.* (4, 1939)

Hassid, William Z., Ph.D., Univ. of California, Berkeley. *Prof. of Plant Biochemistry.* (2, 1946)

Hastings, A. Baird, Ph.D. Harvard Med. School, 25 Shattuck St., Boston 15, Mass. *Hamilton Kuhn Prof. of Biological Chemistry.* (1, 1927; 2, 1921; 5, 1940)

Hathaway, Millicent L., Ph.D. Agricultural Research Administration, Bureau of Human Nutrition and Home Economics, Food and Nutrition Div., Washington 25, D. C. (5, 1945)

Hauck, Hazel M., Ph.D. Cornell Univ. College of Home Economics, Ithaca, N. Y. *Prof. of Food and Nutrition.* (5, 1941)

Hauge, Siegfred M., Ph.D. Purdue Univ. Agricultural Exper. Station, Lafayette, Ind. *Research Assoc. in Biochemistry.* (5, 1933)

Haurowitz, Felix, M.D., D.Sc. Indiana Univ., Bloomington. *Prof. of Chemistry.* (2, 1949; 6, 1948)

Haury, Victor G., M.D. Box 206, Wellsville, Kansas. *Private Practice in Medicine.* (3, 1939)

Haven, Frances L., Ph.D. Univ. of Rochester School of Medicine and Dentistry, 260 Crittenden Blvd., Rochester, N. Y. *Assoc. in Biochemistry.* (2, 1941)

Hawk, Philip B., Ph.D. Food, Drug and Cosmetic Consultant, 4818 33rd St., Long Island City, N. Y. *Pres. of Food Research Labs., Inc.* (1, 1903; 2, 1906)

Hawkins, J. E., Jr., Ph.D. Merck Inst. for Therapeutic Research, Rahway, N. J. *Physiologist.* (1, 1943)

Hawkins, William Bruce, M.D. Univ. of Rochester School of Medicine and Dentistry, 260 Crittenden Blvd., Rochester, N. Y. *Assoc. Prof. of Pathology.* (4, 1933)

Hawley, Estelle E., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Research Fellow in Pediatrics.* (5, 1935)

Hawn, Clinton van Zandt, M.D. Harvard Med. School, Dept. of Pathology, Boston, Mass. *Assoc. Prof.; Pathologist-in-Chief, Peter Bent Brigham Hospital.* (4, 1948)

Hay, Eleanor Clarke, Ph.D. 7 Greenhill Rd., Madison, N. J. (1, 1945)

Hayaishi, Osamu, M. D. Natl. Insts. of Health, Inst. of Arthritis and Metabolic Diseases, Bethesda 14, Md. *Special Fellow.* (2, 1952)

Hayano, Mika, Ph.D. Worcester Foundation for Exper. Biology, Shrewsbury, Mass. *Research Biochemist.* (2, 1952)

Hayashi, Teru, Ph.D. Columbia Univ., 1324 Pupin Hall, New York City 27. *Asst. Prof. of Zoology.* (1, 1951)

Hayman, J. M., Jr., M.D. Lakeside Hospital, Cleveland, Ohio. *Prof. of Medicine, Western Reserve Univ.* (1, 1928; 3, 1932)

Haynes, Florence W., Ph.D. Harvard Med. School, 25 Shattuck St., Boston, Mass. *Research Assoc. in Medicine.* (1, 1937)

Hays, Edwin Everett, Ph.D. Armour and Co., Research Div., 1425 W. 42nd St., Chicago 9, Ill. *Dir. of Research.* (2, 1946)

Hays, Harry W., Ph.D. Wayne Univ. College of Medicine, 1512 St. Antoine St., Detroit 26, Mich. *Assoc. Prof. of Pharmacology.* (3, 1949)

Haywood, Charlotte, Ph.D. Mount Holyoke College, South Hadley, Mass. *Prof. of Physiology.* (1, 1939)

Hazen, Elizabeth L., Ph.D. New York State Dept. of Health Labs., 339 E. 25th St., New York City. *Sr. Bacteriologist.* (6, 1931)

Hazleton, Lloyd W., Ph.D. Box 333, Falls Church, Va. *Dir., Hazelton Labs.* (3, 1944)

Hearon, John Z., Ph.D. Univ. of Chicago, Dept. of Physiology, Chicago, Ill. *Asst. Prof.* (1, 1951)

Hecht, Hans H., M.D. Salt Lake General Hosp., Salt Lake City, Utah. *Assoc. Prof. of Medicine, Univ. of Utah College of Medicine.* (1, 1952)

Hechter, Oscar M., Ph.D. Worcester Foundation for Exper. Biology, 222 Maple Ave., Shrewsbury, Mass. (1, 1945)

Hegnauer, Albert H., Ph.D. Boston Univ. School

of Medicine, Boston, Mass. *Assoc. Prof. of Physiology.* (**1,** 1937)

Hegsted, David Mark, Ph.D. Harvard School of Public Health, Boston, Mass. *Prof. of Nutrition.* (**5,** 1944)

Heidelberger, Charles, Ph.D. Univ. of Wisconsin, McArdle Memorial Lab., Madison 6. *Assoc. Prof. of Oncology.* (**2,** 1950)

Heidelberger, Michael, Ph.D. Columbia Univ., 630 W. 168th St., New York City 32. *Prof. of Immunochemistry; Chemist to the Presbyterian Hospital.* (**2,** 1927; **6,** 1935)

Heilbrunn, Lewis Victor, Ph.D. Univ. of Pennsylvania, Philadelphia. *Prof. of Zoology.* (**1,** 1930)

Heim, J. William, Ph.D. 1 Yale Ave., Dayton 6, Ohio. *Aero-Med. Lab., U. S. Air Force, Wright Field.* (**1,** 1936)

Heinbecker, Peter, M.D. Washington Univ. Med. School, St. Louis, Mo. *Assoc. Prof. of Clin. Surgery.* (**1,** 1930)

Heinle, Robert W., M.D. Western Reserve Univ., Cleveland, Ohio. *Asst. Prof. of Medicine.* (**5,** 1948)

Helff, O. M., Ph.D. New York Univ., University Heights, New York City. *Assoc. Prof. of Biology.* (**1,** 1932)

Hellbaum, Arthur A., Ph.D., M.D. Univ. of Oklahoma School of Medicine, Oklahoma City. *Prof. of Pharmacology.* (**1,** 1937; **3,** 1945)

Hellebrandt, Frances Anna, M.D. Univ. of Illinois College of Medicine, Dept. of Physical Medicine and Rehabilitation, 1819 W. Polk St., Chicago 12. (**1,** 1933)

Heller, Carl G., M.D., Ph.D. Univ. of Oregon Med. School, Portland 1. *Assoc. Prof. of Physiology and Medicine.* (**1,** 1945)

Heller, Victor G., Ph.D. Oklahoma A & M College, Stillwater. *Head of Dept. of Agricultural Chemistry Research.* (**2,** 1935; **5R,** 1935)

Hellerman, Leslie, Ph.D. Johns Hopkins Univ. School of Medicine, 710 N. Washington St., Baltimore 5, Md. *Assoc. Prof. of Physiological Chemistry.* (**2,** 1935)

Helmer, Oscar Marvin, Ph.D. Lilly Lab. of Clin. Research, Indianapolis General Hospital, Indianapolis 7, Ind. *Head of Dept. of Physiological Chemistry.* (**2,** 1935)

Hemingway, Allan, Ph.D. Univ. of California School of Medicine, Dept. of Physiology, Los Angeles 24. (**1,** 1933)

Henderson, Francis G., M.D. 740 S. Alabama St., Indianapolis 2, Ind. *Pharmacologist, Eli Lilly & Co.* (**3,** 1950)

Henderson, LaVell M., Ph.D. Univ. of Illinois, Urbana. *Asst. Prof. of Chemistry* (**2,** 1949)

Hendley, Charles D., Ph.D. Tulane Univ., Dept. of Psychiatry, 1430 Tulane Ave., New Orleans 12, La. (**1,** 1949)

Hendrix, James Paisley, M.A., M.D. Duke Hospital, Durham, N. C. *Asst. Prof. of Medicine, Assoc. in Physiology and Pharmacology, Duke Univ. School of Medicine.* (**3,** 1942)

Hendry, Jessie L., M.A. Div. of Labs. and Research, New York State Dept. of Health, New Scotland Ave., Albany. *Sr. Bacteriologist.* (**6,** 1938)

Henle, Werner, M.D. 1740 Bainbridge St., Philadelphia 46, Pa. *Assoc. Prof. of Virology in Pediatrics, Univ. of Pennsylvania School of Medicine.* (**6,** 1938)

Henneman, Elwood, M.D., C.M. Johns Hopkins Univ. School of Medicine, Baltimore 5, Md. *Asst. Prof. of Physiology.* (**1,** 1952)

Henry, James P., M.A., M.Sc. Aero-Med. Lab., Wright Field, Dayton, Ohio. *On leave of absence from the Univ. of Southern California, Los Angeles.* (**1,** 1947)

Henschel, Austin F., Ph.D. Climatic Research Lab., 430 Canal St., Lawrence, Mass. *Dir. of Lab.* (**1,** 1944)

Hepburn, Joseph Samuel, Ph.D., M.D. 2045 N. Franklin St., Philadelphia 22, Pa. *Prof. of Chemistry and Research Assoc. in Gastroenterology; Registrar, Hahnemann Med. College and Hospital, (Emeritus).* (**2,** 1915)

Hepler, Opal E., Ph.D., M.D. Northwestern Univ. Med. School, 303 E. Chicago Ave., Chicago, Ill. *Assoc. Prof. of Pathology.* (**4,** 1939)

Heppel, Leon A., Ph.D., M.D. Natl. Insts. of Health, Bethesda 14, Md. *Surgeon, USPHS.* (**2,** 1949)

Herbst, Robert M., Ph.D. Kedzie Chemical Lab., Michigan State College, East Lansing. *Prof. of Chemistry.* (**2,** 1938)

Herget, Carl M., Ph.D. Med. Div., Army Chemical Center, Md. *Chief, Biophysics Section.* (**1,** 1948)

Herrick, C. Judson, Ph.D. 236 Morningside Dr., Grand Rapids 6, Mich. *Prof. Emeritus of Neurology, Univ. of Chicago, Chicago, Ill.* (**1R,** 1907)

Herrick, Julia F., Ph.D. Mayo Foundation, Rochester, Minn. *Assoc. Prof. of Exper. Medicine.* (**1,** 1933)

Herrin, Raymond C., Ph.D., M.D. Univ. of Wisconsin Med. School, Madison. *Prof. of Physiology.* (**1,** 1932)

Herrington, Lovic P., Ph.D. 290 Congress Ave., New Haven, Conn. *Assoc. Dir., John B. Pierce Lab. of Hygiene; Research Assoc. Prof., Dept. of Public Health, Yale Med. School.* (**1,** 1942)

Herriott, Roger M., Ph.D. Johns Hopkins School of Hygiene and Public Health, 615 N. Wolfe St., Baltimore 5, Md. *Prof. of Biochemistry* (**2,** 1940)

Herrmann, George R., Ph.D., M.D. Univ. of Texas Med. Branch, Galveston. *Prof. of Medicine; Dir. of Cardiovascular Research.* (**4,** 1925)

Herrmann, Julian B., Ph.B., M.D. 1185 Park Ave., New York City. (**3,** 1941)

Herrmann, Louis George, M.D. Cincinnati General Hospital, Cincinnati 29, Ohio. *Attending Surgeon; Assoc. Prof. of Surgery, Univ. of Cincinnati College of Medicine.* (**4,** 1933)

Hershey, Solomon G., M.D. New York Univ., Postgraduate Med. School, 235 East 22nd St., New York City 16. *Clin. Prof. of Anesthesiology.* (**3,** 1952)

Hertz, Roy, Ph.D., M.D. Natl. Insts. of Health, Bethesda 14, Md. *Public Health Surgeon (R), Div. of Physiology.* (**1,** 1945)

Hertzman, Alrick B., Ph.D. St. Louis Univ. School of Medicine, St. Louis, Mo. *Prof. of Physiology and Dir. of Dept.* (**1,** 1925)

Herwick, Robert P., Ph.D., M.D. 1212 Westview Rd., Glenview, Ill. *Med. Dir., Baxter Labs., Morton Grove, Ill.* (**3,** 1938)

Hess, Charles L., M.S., M.D. 4301 N. 24th St., Biltwell Apt. 23, Phoenix, Ariz. (**1R,** 1916)

Hess, Walter C., Ph.D. Georgetown Med. School, 39th St. and Reservoir Rd., N.W., Washington 7, D. C. *Prof. of Biological Chemistry.* (**2,** 1935)

Hess, Walter Rudolf, M.D. Univ. of Zurich, Physiological Inst., Zurich, Switzerland. *Dir., Swiss Physiological Inst.* (**1H,** 1950)

Hetherington, Albert W., Ph.D. Hq., Air Research and Development Center, P.O. Box 1395, Baltimore 3, Md. (**1,** 1943)

Hewetson, Jean Hawks, M.D. 115 E. York St., Biglerville, Pa. (**5,** 1944)

Hewitt, Earl Albon, Ph.D. Iowa State College, Ames. *Assoc. Prof. of Veterinary Physiology.* (**1,** 1932)

Hewston, Elizabeth M., M.A. 1121 24th St., N.W., Apt. 300, Washington 7, D. C. *Chemist, Bureau of Human Nutrition and Home Economics.* (**5,** 1950)

Heymans, C., M.D. Univ. of Ghent, 3 Albert Baertsoenkaai, Ghent, Belgium. *Prof. of Pharmacology.* (**3,** 1951)

Heyroth, Francis F., M.D., Ph.D. Univ. of Cincinnati, Cincinnati, Ohio. *Assoc. Prof. of Ind. Toxicology and Asst. Dir., Kettering Lab.; Assoc. Prof. of Biological Chemistry, College of Medicine.* (**2,** 1935)

Hiatt, Edwin P., Ph.D. Univ. of North Carolina School of Medicine, Chapel Hill. *Assoc. Prof. of Physiology.* (**1,** 1942)

Hickam, John B., M.D. Duke Hospital, Durham, N.C. *Assoc. Prof. of Medicine, Duke Univ.* (**1,** 1951)

Hickman, Kenneth C. D., Ph.D. 136 Pelham Rd., Rochester 10, N. Y. *Chemical Consultant.* (**2,** 1944)

Hier, Stanley W., Ph.D. Wilson Labs., 4221 S. Western Ave., Chicago 9, Ill. *Tech. Asst. to General Manager.* (**2,** 1950)

Hiestand, William A., Ph.D. Purdue Univ., Dept. of Biology, Lafayette, Ind. *Prof. of Physiology.* (**1,** 1947)

Higgins, George M., Ph.D. Mayo Clinic, Rochester, Minn. *Prof. of Exper. Biology, Mayo Foundation.* (**5,** 1948)

Higgins, Harold Leonard, M.D. 322 Franklin St., Newton, Mass. (**1,** 1914; **5,** 1933)

Highman, Benjamin, M.S., M.D. Natl. Insts. of Health, Bethesda, Md. *Sr. Surgeon, Lab. of Pathology and Pharmacology.* (**4,** 1947)

Hightower, Nicholas C., M.D., Ph.D. Scott and White Clinic, Temple, Texas. *Staff Physician.* (**1,** 1952)

Hill, Archibald Vivian, C.H., O.B.E., Sc.D., L.L.D., F.R.S. 16 Bishopswood Rd., London N. 6, England. *Foulerton Research Prof. of Royal Society, Univ. College.* (**1H,** 1950)

Hill, Robert M., Ph.D. Univ. of Colorado Med. Center, 4200 E. 9th Ave., Denver. *Prof. of Biochemistry.* (**2,** 1933)

Hill, Samuel E., Ph.D. 135 Brunswick Rd. Troy, N.Y. *Research Worker, The Behr-Manning Corp.* (**1,** 1934)

Hilleman, Maurice, Ph.D. Army Med. Center, Army Med. Service Grad. School, Dept. of Virus and Rickettsial Diseases, Washington 12, D. C. *Med. Bacteriologist.* (**6,** 1949)

Hiller, Alma, Ph.D. Presbyterian Hospital, 1753 W. Congress St., Chicago 12, Ill. *Assoc., Rush Dept. of Biochemistry.* (**2,** 1929)

Hillier, James, Ph.D. 4 Newlin Rd., Princeton, N.J. *Electron Microscopist, RCA Labs.; Assoc., Sloan-Kettering Inst.* (**1,** 1951)

Himwich, Harold E., M.D. Galesburg State Research Hospital, Galesburg, Ill. *Research Dir.* (**1,** 1925)

Himwich, Williamina A., Ph.D. Galesburg State Research Hospital, Galesburg, Ill. (**1,** 1947)

Hine, Charles H., Ph.D., M.D. Univ. of California Med. School, Div. of Pharmacology, Med. Center, San Francisco 22. *Assoc. Clin. Prof.* (**3,** 1947)

Hines, Harry M., Ph.D. State Univ. of Iowa, Iowa City. *Prof. of Physiology.* (**1,** 1928)

Hines, Marion, Ph.D. Emory Univ. Dept. of Anatomy, Emory University, Ga. *Prof. of Exper. Anatomy.* (**1,** 1932)

Hinrichs, Marie, Ph.D., M.D. Southern Illinois Normal Univ., Carbondale. *Prof. of Physiology; Dir. of Student Health Service.* (**1,** 1928)

Hinsey, Joseph C., Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City. *Prof. of Anatomy and Dean of the Med. College.* (**1,** 1929)

Hirsch, Frederic G., M.D. Lovelace Foundation, 4800 Gibson Ave., Albuquerque, N.M. *Biophysicist.* (**1,** 1951)

Hirschmann, Hans, M.D., Ph.D. Lakeside Hospital, Cleveland 6, Ohio. *Assoc. Prof. of Biochem-*

istry, Dept. of Medicine, Western Reserve Univ. (2, 1946)

Hirst, George K., M.D. Public Health Research Inst., Foot of East 15th St., New York City 9. *Chief, Div. of Infectious Diseases.* (6, 1951)

Hirszfeld, Ludwik, M.D. Univ. of Wroclaw, Wroclaw, Ul. Chaubinskiego 4, Poland. *Prof. of Microbiology; Dir. of Med. Microbiology.* (6, 1946)

Hisaw, Frederick L., Ph.D. Harvard Univ. Biological Labs., Cambridge, Mass. *Prof. of Zoology.* (1, 1932)

Hitchcock, David I., Ph.D. Yale Univ., 333 Cedar St., New Haven 11, Conn. *Assoc. Prof. of Physiology.* (2, 1930)

Hitchcock, Fred A., Ph.D. Ohio State Univ., Columbus. *Prof. of Physiology.* (1, 1927; 5, 1933)

Hitchcock, Philip, Ph.D., M.D. Med. College of Alabama, Dept. of Physiology and Pharmacology, Birmingham 5. *Assoc. Prof. of Pharmacology.* (3, 1946)

Hitchings, George H., Ph.D. 50 Primrose Ave., Tuckahoe 7, N.Y., *Chief Biochemist, Burroughs-Wellcome Research Labs.* (2, 1942)

Hjort, Axel M., M.D., Ph.D. P.O. Box 281, Fern Way, Scarsdale, N. Y. *Private Research Lab. and Practice of Medicine.* (2, 1925)

Hoagland, Hudson, Ph.D. 222 Maple Ave., Shrewsbury, Mass. *Exec. Dir., Worcester Foundation for Exper. Biology; Neurophysiologist, Worcester State Hospital.* (1, 1932)

Hobby, Gladys L., Ph.D. 11 Bartlett St., Brooklyn 6, N.Y. *Research Bacteriologist in charge of Biological Control, Chas. Pfizer & Co.* (6, 1946)

Hober, Rudolf. 5037 Larchwood Ave., Philadelphia 43, Pa. *Visiting Prof. of Physiology, Univ. of Pennsylvania Med. School* (1R, 1936)

Hoberman, Henry D., Ph.D., M.D. Yale Univ. School of Medicine, Dept. of Physiological Chemistry, 333 Cedar St., New Haven 11, Conn. *Asst. Prof. of Physiological Chemistry.* (2, 1949)

Hoch, Hans, Ph.D. 408 Park St., Charlottesville, Va. *Asst. Prof., Univ. of Virginia.* (2, 1952)

Hockett, Robert C., Ph.D. Sugar Research Foundation, Inc., 52 Wall St., New York City 5. *Scientific Dir.* (2, 1950)

Hodes, Robert, Ph.D. Tulane Univ. School of Medicine, Dept. of Psychiatry, New Orleans 12, La. *Prof. of Exper. Neurology and Neurophysiology.* (1, 1941)

Hodge, Harold Carpenter, Ph.D. Univ. of Rochester School of Medicine and Dentistry, 260 Crittenden Blvd., Rochester 20, N. Y. *Prof. of Pharmacology.* (2, 1937; 3, 1948)

Hoefer, Paul F. A., Ph.D., M.D. Neurological Inst. of New York, 710 W. 168th St., New York City 32. *Assoc. Prof. of Neurology.* (1, 1945)

Hoff, Ebbe Curtis, Ph.D. Med. College of Virginia, Richmond 19. *Prof. of Neurological Science.* (1, 1933)

Hoff, Hebbel E., Ph.D. Baylor Univ. College of Medicine, Dept. of Physiology, 1200 M. D. Anderson Blvd., Houston 5, Tex. *B. F. Hambleton Prof. and Chairman of the Dept.* (1, 1933)

Hoffbauer, Frederick William. Univ. of Minnesota Hospitals, Dept. of Medicine, Minneapolis 14. *Assoc. Prof. of Medicine.* (4, 1952)

Hoffman, William Samuel, Ph.D., M.D. Hektoen Inst. for Med. Research, 629 S. Wood St., Chicago 12, Ill. *Dir. of Biochemistry, Cook County Hospital.* (2, 1935)

Hofmann, Klaus, Ph.D. Univ. of Pittsburgh Med. School, Dept. of Biochemistry, Pittsburgh, Pa. *Prof. of Biochemistry.* (2, 1947)

Hogan, Albert G., Ph.D. Univ. of Missouri, 105 Schweitzer Hall, Columbia. *Prof. of Animal Nutrition.* (2, 1916; 5, 1933)

Hogeboom, George Hall, M.D. Natl. Cancer Inst., Natl. Inst. of Health, Bethesda 14, Md. *Med. Officer.* (2, 1951)

Hogness, Thorfin R., Ph.D. Univ. of Chicago, 6040 S. Greenwood Ave., Chicago 37, Ill. *Prof. of Chemistry.* (2, 1941)

Holck, Harald G. O., Ph.D. Univ. of Nebraska, College of Pharmacy, Lincoln. *Prof. of Pharmacology.* (1, 1935; 3, 1938)

Hollaender, Alexander, Ph.D. Oak Ridge Natl. Lab., Oak Ridge, Tenn. (1, 1947)

Holland, William Cannon, M.D. Vanderbilt Univ. Med. School, Dept. of Pharmacology, Nashville, Tenn. *Asst. Prof.* (3, 1951)

Hollander, Franklin, Ph.D. Mount Sinai Hospital, Fifth Ave. and 100th St., New York City. *Assoc. in Physiology; Head, Gastro-enterology Research Lab.* (1, 1942; 2, 1932)

Hollinshead, W. Henry, Ph.D. Mayo Clinic, Rochester, Minn. *Head of Section on Anatomy; Prof. of Anatomy, Mayo Foundation.* (1, 1949)

Holm, August, Sc.D. E. R. Squibb & Sons, New Brunswick, N. J. *Research Assoc.* (6, 1946)

Holman, Ralph Theodore, Ph.D. Hormel Inst., Austin, Minn. *Assoc. Prof. of Physiological Chemistry.* (2, 1948)

Holman, Russell Lowell, M.D. Louisiana State Univ. School of Medicine, New Orleans. *Prof. of Pathology.* (4, 1940)

Holmes, Arthur Dunham, Ph.D. Univ. of Massachusetts, Amherst. *Research Prof. of Chemistry.* (2R, 1931; 5R, 1933)

Holmes, Joseph H., M.D., D.Med.Sc. Univ. of Colorado School of Medicine, 4200 E. Ninth Ave., Denver 7. *Assoc. Prof. of Medicine.* (1, 1947)

Holmes, Julia O., Ph.D. 79 Old Town Rd., Amherst, Mass. (2, 1942; 5, 1936)

Holt, Joseph Paynter, M.D., Ph.D. P. O. Box 1044, Pine Castle, Fla. (1, 1942)

Holt, L. Emmett, Jr., M.D. 477 First Ave., New York City 16. *Prof. of Pediatrics, New York Univ. College of Medicine.* (**2,** 1930; **5,** 1946)

Hoobler, Icie Macy, Ph.D. 660 Frederick St., Detroit 2, Mich. *Dir., Research Lab. Children's Fund of Michigan.* (**2,** 1925; **5,** 1933)

Hoobler, Sibley W., M.D. Univ. of Michigan Hospital, Dept. of Medicine and Surgery, Ann Arbor. *Asst. Prof. of Medicine.* (**1,** 1949)

Hooker, Davenport, Ph.D. Univ. of Pittsburgh School of Medicine, Pittsburgh, Pa. *Prof. of Anatomy.* (**1,** 1920)

Hooker, Sanford B., A.M., M.D. 80 E. Concord St., Boston, Mass. *Member Evans Memorial.* (**6R,** 1918)

Hoover, Sam R., Ph.D. 7815 Linden Rd., Philadelphia 18, Pa. *Sr. Chemist, Eastern Regional Research Lab., U.S. Dept. of Agriculture.* (**2,** 1946)

Hoppe, James O., Ph.D. Sterling-Winthrop Research Inst., Rensselaer, N. Y. *Research Assoc. in Pharmacology.* (**3,** 1950)

Hoppert, C. A., Ph.D. Michigan State College, Box 626, East Lansing. *Prof. of Biological Chemistry.* (**5,** 1935)

Hopps, Howard C., M.D. Univ. of Oklahoma School of Medicine, 801N.E. 13th St., Oklahoma City. *Prof. and Chairman of Dept. of Pathology.* (**4,** 1947; **6,** 1946)

Horecker, Bernard L., Ph.D. Natl. Insts. of Health, Bethesda 14, Md. *Biochemist.* (**2,** 1947)

Horn, Millard J., Ph.D. 1811 Varnum St., N.E., Washington 18, D.C. *U.S. Dept. of Agriculture, Chemist.* (**2,** 1949)

Horowitz, Norman H., Ph.D. California Inst. of Technology, Pasadena. *Assoc. Prof. of Biology.* (**2,** 1946)

Horsfall, Frank L., Jr., M.D. C.M. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Member; Physician to the Hospital of the Rockefeller Inst. for Med. Research.* (**6,** 1937)

Horstmann, Dorothy M., M.D. Yale Univ. School of Medicine, 333 Cedar St., New Haven, Conn. *Asst. Prof. of Preventive Medicine.* (**6,** 1951)

Horton, Richard G., Ph.D. Med. Labs., Army Chemical Center, Md. *Acting Chief, Toxicology Section.* (**1,** 1948)

Horvath, Steven M., Ph.D. State Univ. of Iowa School of Medicine, Dept. of Physiology, Iowa City. (**1,** 1943)

Horwitt, M. K., Ph.D. Biochemical Research Lab., Elgin State Hospital, Elgin, Ill. *Assoc. Prof., Biological Chemistry, Univ. of Illinois College of Medicine.* (**2,** 1941; **5,** 1949)

Hoskins, R. G., Ph.D., M.D. 86 Varick Rd., Waban 68, Mass. (**1R,** 1911)

Hotchkiss, Rollin D., Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Assoc. Member.* (**2,** 1941)

Hou, H. C., M.D. % Union Embroidery Co., 22 Wyndham St., Hong Kong, China. (**5,** 1949)

Houck, C. Riley, Ph.D. Univ. of Tennessee Med. School, Memphis 3. *Asst. Prof. in Physiology.* (**1,** 1947)

Houssay, Bernardo A., M.D. Viamonte 2790, Buenos Aires, Argentina. *Dir. and Prof. of Physiology.* (**1H,** 1942)

Hove, Edwin L., Ph.D. Alabama Polytechnic Inst., Lab. of Animal Nutrition, Auburn. *Research Biochemist.* (**5,** 1946)

Howard, Evelyn, Ph.D. Johns Hopkins School of Medicine, Baltimore, Md. *Asst. Prof. of Physiology.* (**1,** 1933)

Howard, John Eager, A.B., M.D. Johns Hopkins Hospital, Baltimore 5, Md. *Asst. Prof. of Medicine.* (**1,** 1946)

Howard, Marion E., M.D. 158 Whitney Ave., New Haven, Conn. *Assoc. Clin. Prof. of Medicine, Yale School of Medicine; Assoc. Physician, New Haven Hospital and New Haven Dispensary.* (**4,** 1939; **6,** 1937)

Howe, Howard A., Ph.D. Johns Hopkins Univ., 1901 East Madison St., Baltimore 5, Md. *Adjunct Prof. of Epidemiology.* (**6,** 1949)

Howe, Paul E., Ph.D. U.S. Dept. of Agriculture, Bureau of Animal Ind., Washington 25, D. C, *Nutrition Consultant.* (**1,** 1913; **2,** 1909; **5R,** 1933)

Howell, Stacey F., Ph.D. Kirksville College of Osteopathy and Surgery, Kirksville, Mo. *Assoc. Prof. of Physiological Chemistry.* (**2,** 1940)

Howland, Joe W., M.D., Ph.D. Strong Memorial Hospital, 260 Crittenden Blvd., Rochester 20, N. Y. *Prof. of Radiation Biology, Univ. of Rochester School of Medicine.* (**1,** 1949; **4,** 1951)

Hubbard, Roger Sanford, Ph.D. Univ. of Buffalo School of Medicine, 24 High St., Buffalo 2, N. Y. *Prof. of Pharmacology.* (**1,** 1922; **2,** 1920)

Hubbell, Rebecca B., Ph.D. Connecticut Agricultural Exper. Station, New Haven. *Assoc. Biochemist.* (**2,** 1937; **5,** 1935)

Hudack, Stephen Sylvester, M.D. 180 Fort Washington Ave., New York City. *Assoc. Prof. of Orthopedic Surgery, Columbia Univ.* (**4,** 1933)

Huddleston, Ora L., M.D., Ph.D. Kabat-Kaiser Inst., 1815 Ocean Front, Santa Monica, Calif. *Med. Dir.* (**1,** 1936)

Huennekens, Frank M., Ph.D. Univ. of Washington, Dept. of Biochemistry, Seattle 5. *Asst. Prof.* (**2,** 1952)

Hueper, Wilhelm C., M.D. Natl. Cancer Inst., Bethesda, Md. *Chief, Cancerigenic Studies Section; Chief, Cancerigenic Research Labs.* (**4,** 1940)

Huf, Ernst G., Ph.D., M.D. 1417 Avondale Ave., Richmond, Va. *Assoc. Prof. of Physiology, Med. College of Virginia.* (**1,** 1949)

Huff, Jesse W., Ph.D. Sharp & Dohme, Inc.,

West Point, Pa. *Dir., Biochemical Research.* (**2,** 1949)

Huffman, C. F., Ph.D. Michigan State College, East Lansing. *Research Prof. and Prof. in Dairy Husbandry.* (**5,** 1937)

Huffman, Max N., Ph.D. Oklahoma Med. Research Fndn., 825 N. E. 13th St., Oklahoma City 4. *Prof. of Research Biochemistry, Univ. of Oklahoma, School of Medicine.* (**2,** 1947)

Huggins, Charles Brenton, M.D. Univ. of Chicago, Chicago, Ill. *Prof. of Surgery.* (**1,** 1932)

Huggins, Russell A., Ph.D. Baylor Univ. College of Medicine, 1200 M. D. Anderson Blvd., Houston 5, Tex. *Prof. of Pharmacology.* (**1,** 1952; **3,** 1949)

Hughes, Hettie B., Ph.D. Christ Hospital, Cincinnati 19, Ohio. *Research Assoc.* (**2,** 1946)

Hughes, Joseph, M.D. 111 N. 49th St., Philadelphia, Pa. *Asst. Prof. of Exper. Neurology, Grad. School of Medicine, Univ. of Pennsylvania; Dir. of Lab., Pennsylvania Hospital for Mental Diseases.* (**1,** 1936)

Hughes, Josiah Simpson, Ph.D. Kansas State College, Manhattan. *Prof. of Chemistry.* (**2,** 1931; **5,** 1939)

Hughes, Thomas P., Ph.D. American Legation, Amman, Kingdom of Jordan. (**6,** 1934)

Hulpieu, Harold R., Ph.D. Indiana Univ. School of Medicine, Indianapolis. *Prof. of Pharmacology.* (**3,** 1939)

Hummel, John P., Ph.D. State Univ. of Iowa, Dept. of Biochemistry, Iowa City. *Asst. Prof.* (**2,** 1952)

Humphreys, Eleanor M., M.D. Univ. of Chicago, Dept. of Pathology, Chicago 37, Ill. *Professor.* (**4,** 1950)

Humphries, James C., Ph.D. Univ. of Kentucky, Dept. of Bacteriology, Lexington. *Assoc. Prof. of Bacteriology.* (**6,** 1950)

Hundley, James M., M.D. Natl. Insts. of Health, Exper. Biology and Medicine Inst., Bethesda 14, Md. *Chief, Section on Nutrition.* (**5,** 1950)

Hunscher, Helen A., Ph.D. Western Reserve Univ., 2023 Adelbert Rd., Cleveland 6, Ohio. *Head of Dept. of Home Economics.* (**5,** 1934)

Hunt, Carlton C., M.D. Wilmer Inst., Johns Hopkins Hospital, Baltimore, Md. *Sr. Fellow, Natl. Research Council.* (**1,** 1950)

Hunter, Andrew, C.B.E., M.B. Hospital for Sick Children, Toronto, Ontario, Canada. *Consulting Biochemist; Prof. Emeritus of Pathological Chemistry, Univ. of Toronto.* (**2,** 1908)

Hunter, F. R., Ph.D. Florida State Univ., Dept. of Physiology, Tallahassee. *Prof. and Head of Dept.* (**1,** 1952)

Hunter, Francis Edmund, Jr., Ph.D. Washington Univ. Med. School, St. Louis 10, Mo. *Assoc. Prof. of Pharmacology.* (**2,** 1946; **3,** 1951).

Hunter, George, M.A., D.Sc. 108 Walton Way, Aylesbury, Bucks, England. (**2,** 1924)

Hunter, Jesse E., Ph.D. Allied Mills, Inc., Research Labs., Box 459, Libertyville, Ill. *Dir. of Research.* (**5,** 1936)

Hunter, John, Ph.D. Defense Research Med. Labs., 1107 Avenue Rd., Toronto, Ontario, Canada. (**1,** 1948)

Hussey, Raymond, M.D. American Med. Association, 535 N. Dearborn, Chicago 10, Ill. *Scientific Dir., Council on Industrial Health.* (**4,** 1927)

Hutchens, John O., Ph.D. Univ. of Chicago, Dept. of Physiology, Chicago 37, Ill. *Assoc. Prof. and Chairman of Dept. of Physiology; Dir. of Toxicity Lab.* (**1,** 1947)

Hutchings, Brian L., Ph.D. Lederle Labs. Div., American Cyanamid Co., Pearl River, N. Y. *Head, Dept. of Biochemistry.* (**2,** 1949)

Hyde, Jane E., Ph.D. 84 Mountain Ave., Summit, N. J. (**1,** 1951)

Hyman, Chester, Ph.D. Univ. of Southern California School of Medicine, Los Angeles. *Asst. Prof. of Physiology.* (**1,** 1948)

Ingalls, Mabel S., Ph.D. 860 Fifth Ave., New York City 21. *Consultant, World Health Organization, Lake Success.* (**6,** 1940)

Ingle, Dwight J., Ph.D. Upjohn Co., Research Labs., Kalamazoo, Mich. *Sr. Research Scientist.* (**1,** 1939)

Ingraham, Raymond Clifford, Ph.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago. *Asst. Prof. in Physiology.* (**1,** 1938)

Ingram, W. R., Ph.D. State Univ. of Iowa College of Medicine, Iowa City. *Prof. and Head of Dept. of Anatomy.* (**1,** 1936)

Irish, Don D., Ph.D. Dow Chemical Co., Midland, Mich. *Dir., Biochemical Research Lab.* (**3,** 1948)

Irvin, Elinor Moore, Ph.D. Univ. of North Carolina School of Medicine, Dept. of Biological Chemistry and Nutrition, Chapel Hill. *Guest Investigator.* (**2,** 1951)

Irvin, J. Logan, Ph.D. Univ. of North Carolina, School of Medicine, Chapel Hill. *Assoc. Prof. Biological Chemistry and Nutrition.* (**2,** 1942)

Irving, George Washington, Jr., Ph.D. U. S. Dept. of Agriculture, Bureau of Agricultural and Industrial Chemistry, South Bldg., Washington 25, D. C. *Asst. Chief.* (**2,** 1946)

Irving, Laurence, Ph.D. USPHS, P.O. Box 960, Anchorage, Alaska. *Biologist, Alaska Health and Sanitation Activities.* (**1,** 1927)

Irwin, M. R., Ph.D. Univ. of Wisconsin, Madison. *Prof. of Genetics.* (**6,** 1936)

Isaacs, Raphael, M.A., M.D. 104 S. Michigan Ave., Suite 630, Chicago 3, Ill. *Attending Physician in Hematology, Michael Reese Hospital.* (**4,** 1928)

Isbell, Harris, M.D. USPHS Hospital, Lexington, Ky. *Dir., Research Div.* (**3,** 1949)

Isenberger, R. M., M.A., M.D. Univ. of Kansas School of Medicine, Kansas City. *Prof. of Pharmacology.* **(3,** 1937)

Ivy, A. C., Ph.D., M.D. Univ. of Illinois, Chicago Professional Colleges, Chicago, Ill. *Vice-Pres.; Distinguished Service Prof. of Physiology.* **(1,** 1919; **5,** 1933)

Iwamoto, Harry K., Ph.D. Univ. of Buffalo, Schools of Medicine and Pharmacy, Dept. of Pharmacology, Buffalo 14, N. Y. **(3,** 1948)

Izquierdo, J. Joaquin, M.D. Natl. School of Medicine, Mexico City. *Prof. of Physiology in Natl. School of Medicine and the Escuela Medico Militar of Mexico.* **(1,** 1928)

Jackson, Dennis Emerson, Ph.D., M.D. 144 Louis Ave., Cincinnati 20, Ohio. *Prof. Emeritus of Pharmacology, Univ. of Cincinnati College of Medicine.* **(1R,** 1910; **3R,** 1912)

Jackson, Elizabeth B., A.B. Army Med. Center, Army Med. Service Grad. School, Dept. of Virus and Rickettsial Diseases, Washington 12, D. C. *Bacteriologist.* **(6,** 1949)

Jackson, Eugene L., Ph.D. 1322 W. Broad St., Richmond 20, Va. *Med. Dir., A. H. Robins Co.* **(3,** 1942)

Jackson, Richard W., Ph.D. U. S. Dept. of Agriculture, Northern Regional Research Lab., 825 N. University St., Peoria 5, Ill. *Head of Fermentation Div.* **(2,** 1930; **5,** 1933)

Jacobs, Merkel Henry, Ph.D. Univ. of Pennsylvania, School of Medicine, Philadelphia. *Prof. of General Physiology.* **(1,** 1919)

Jacobs, Walter A., Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Member Emeritus.* **(2,** 1908; **3,** 1913)

Jacobsen, Erik, M.D. Medicinalco Ltd., Copenhagen S, Denmark. *Research Dir.* **(3,** 1950)

Jacobson, Edmund, Ph.D., M.D. Lab. for Clin. Physiology, 55 E. Washington St., Chicago, Ill. **(1,** 1929)

Jaffe, Henry L., M.D. Hospital for Joint Diseases, 1919 Madison Ave., New York City. *Dir. of Labs.* **(4,** 1925)

Jahn, Theodore Louis, Ph.D. Univ. of California, Los Angeles 24. *Chairman, Dept. of Zoology.* **(1,** 1944)

Jailer, Joseph W., M.D., Ph.D. Columbia Univ. College of Physicians and Surgeons, New York City. *Asst. Prof. of Medicine.* **(1,** 1948).

Jamieson, Walter A., Sc.D. Green Braes, R.R. 2, Indianapolis, Ind. *Dir., Biological Div., Eli Lilly & Co.* **(6,** 1927)

Jandorf, Bernard J., Ph.D. Med. Labs., Army Chemical Center, Md. *Chief, Enzyme Chemistry Branch.* **(2,** 1946)

Janes, Ralph G., Ph.D. State Univ. of Iowa College of Medicine, Iowa City. *Assoc. Prof. of Anatomy.* **(1,** 1948)

Janowitz, Henry D., M.D. Mt. Sinai Hospital, Gastroenterology Research Lab., 1 E. 100th St., New York City 29. *Research Asst. in Gastroenterology.* **(1,** 1951)

Jansen, Eugene F., B.A. Enzyme Research Lab., Western Regional Research Lab., Albany 6, Calif. *Sr. Chemist, Bureau of Agricultural and Industrial Chemistry, U. S. Dept. of Agriculture.* **(2,** 1947)

Jaques, L. B., Ph.D. Univ. of Saskatchewan, Saskatoon, Canada. *Prof. of Physiology.* **(1,** 1943)

Jarcho, Leonard W., M.A., M.D. Johns Hopkins Hospital, Dept. of Medicine, Baltimore 5, Md. *Fellow, Natl. Fndn. for Infantile Paralysis; Asst. In Medicine, Asst. Physician (OPD), Johns Hopkins Hospital and Med. School.* **(1,** 1951)

Jasper, Herbert H., Ph.D., D. és Sc. (Paris), M.D. Montreal Neurological Inst., 3801 University St., Montreal, Quebec, Canada. *Head, Dept. of Neurophysiology; Prof. of Exper. Neurology, McGill Univ.* **(1,** 1940)

Jawetz, Ernest, Ph.D., M.D. Univ. of California Med. Center, 3rd and Parnassus Aves., San Francisco 22. *Assoc. Prof. of Bacteriology; Lecturer in Medicine and Pediatrics.* **(6,** 1950)

Jeans, P. C., M.D. Childrens' Hospital, State Univ. of Iowa, Iowa City. *Prof. of Pediatrics.* **(5,** 1937)

Jensen, Hans F., Ph.D. Army Med. Research Lab., Fort Knox, Ky. *Head, Biochemistry Dept.* **(2,** 1929)

Joachimoglu, George, M.D. 3A Lykeiou St., Athens, Greece. *Prof. of Pharmacology.* **(3,** 1951)

Jobling, James W., M.D. Suwanee Hotel, St. Petersburg, Fla. *Prof. Emeritus of Pathology, Columbia Univ.* **(4R,** 1913)

Jochim, Kenneth E., Ph.D. Univ. of Kansas, Dept. of Physiology, Lawrence. **(1,** 1942)

Johlin, J. M., Ph.D. Vanderbilt Univ. School of Medicine, Nashville, Tenn. *Assoc. Prof. of Biochemistry.* **(2R,** 1928)

Johnson, B. Connor, Ph.D. Univ. of Illinois, Div. of Animal Nutrition, 554 Davenport Hall, Urbana. *Assoc. Prof.* **(2,** 1947; **5,** 1947)

Johnson, Frank H., Ph.D. Princeton Univ., Dept. of Biology, Princeton, N. J. **(1,** 1942)

Johnson, Joseph L., Ph.D., M.D. Howard Univ. School of Medicine, Washington, D. C. *Prof. and Head of Dept. of Physiology.* **(1,** 1934)

Johnson, J. Raymond, Ph.D. Univ. of Ottawa, Faculty of Medicine, Ottawa, Ontario, Canada. **(1,** 1938)

Johnson, Marvin J., Ph.D. Univ. of Wisconsin, Biochemistry Bldg., Madison. *Prof. of Biochemistry.* **(2,** 1941)

Johnson, Ralph M., Ph.D. Detroit Inst. of Cancer Research, Detroit 1, Mich. *Research Assoc.;*

Research Assoc., Wayne Univ. College of Medicine. (2, 1952)

Johnson, Robert E., M.D., Ph.D. Univ. of Illinois College of Liberal Arts and Sciences, Dept. of Physiology, Urbana. *Head of Dept.* (1, 1944; 2, 1939; 5, 1946)

Johnson, S. R., Ph.D. Missouri Farmers Assoc. Milling Co., Springfield. *Dir. of Nutrition.* (5, 1947)

Johnson, Victor, Ph.D., M.D. Mayo Foundation, Rochester, Minn. (1, 1933)

Johnston, Charles G., M.S., M.D. Wayne Univ. College of Medicine, Detroit, Mich. *Prof. of Surgery.* (1, 1933)

Johnston, Frances A., Ph.D. Cornell Univ., Ithaca, N. Y. *Asst. Prof. of Foods and Nutrition.* (5, 1948)

Johnston, Margaret W., Ph.D. P. O. Box 276, Ann Arbor, Mich. (2, 1930; 5, 1938)

Jolliffe, Norman, M.D. 910 Park Ave., New York City 21. (1, 1932)

Jones, D. Breese, Ph.D. 2901 18th St., N.W., Washington 9, D .C. *Retired.* (2, 1920; 5R, 1935)

Jones, Hardin B., Ph.D. Univ. of California, Div. of Med. Physics, Berkeley 4. *Asst. Prof. of Med. Physics and Physiology; Asst. Dir. of Donner Lab.* (1, 1949)

Jones, James H., Ph.D. Univ. of Pennsylvania School of Veterinary Medicine, Philadelphia 4. *Prof. of Physiological Chemistry.* (2, 1928; 5, 1933)

Jones, Kenneth K., Ph.D. Northwestern Univ. Med. School, 303 E. Chicago Ave., Chicago, Ill. *Assoc. Prof. of Physiology and Pharmacology.* (1, 1936)

Jones, Ralph, Jr., M.D. Univ. of Pennsylvania Med. School, Philadelphia 4. *Assoc. in Medicine.* (3, 1950)

Jones, Russell S. Univ. of Tennessee, Inst. of Pathology, Memphis. *Asst. Prof. of Pathology.* (4, 1952)

Joseph, Norman R., Ph.D. Univ. of Illinois, 1853 W. Polk St., Chicago 12. *Asst. Prof. of Chemistry.* (2, 1947)

Joslin, Elliott P., M.A., M.D., 81 Bay State Rd., Boston, Mass. *Dir., George F. Baker Clinic.* (5R, 1933)

Jukes, Thomas Hughes, Ph.D. Lederle Labs., Pearl River, N. Y. *Head, Dept. of Nutrition and Physiology Research.* (2, 1935; 5, 1938)

Jung, Frederic Theodore, Ph.D., M.D. American Med. Assoc., Chicago, Ill. *Asst. Secretary.* (1, 1930)

Jungck, Edwin C., M.D., Ph.D. Univ. of Arkansas School of Medicine, Little Rock. *Asst. Prof. of Physiology; Research Asst. Prof. of Obst. and Gynec.* (1, 1952)

Jungeblut, Claus W., M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Prof. of Bacteriology.* (4, 1929; 6, 1926)

Kabat, Elvin A., Ph.D. Columbia Univ. College of Physicians and Surgeons, 710 W. 168th St., New York City 32. *Prof. of Microbiology.* (2, 1940; 6, 1943)

Kabat, Herman, Ph.D., M.D. 2600 Alameda St., Vallejo, Calif. (1, 1941)

Kahn, Reuben L., Sc.D., Univ. of Michigan Hospital, Ann Arbor. *Assoc. Prof. of Serology of Syphilis and Chief of Serology Lab.* (4, 1934; 6, 1919)

Kalckar, Herman M., M.D., Ph.D. Univ. of Copenhagen, Inst. f. Cell Physiology, 28 Juliane Maries Vej, Copenhagen, Denmark. *Research Prof. and Head of Dept.* (2, 1942)

Kalnitsky, George, Ph.D. State Univ. of Iowa, Iowa City. *Assoc. Prof. of Biochemistry.* (2, 1948)

Kalow, Werner, M.D. Univ. of Toronto, Dept. of Pharmacology, Toronto 5, Canada. *Lecturer.* (3, 1951)

Kalter, Seymour Sanford, Ph.D. Syracuse Univ., College of Medicine, Dept. of Bacteriology and Parasitology, Syracuse, N. Y. *Asst. Prof.; Assoc. Bacteriologist, Syracuse Health Dept.* (6, 1950)

Kamen, Martin D., Ph.D. Washington Univ. Med. School, 510 S. Kingshighway, St. Louis 10, Mo. *Assoc. Prof. of Chemistry.* (2, 1946)

Kamm, Oliver, Ph.D. 365 Lakeshore Drive, Detroit 30, Mich. *Research Consultant, Parke, Davis and Co.* (2, 1928)

Kaplan, Alex, Ph.D. Michael Reese Hospital, Med. Research Inst., Chicago 16, Ill. *Asst. Dir., Dept. of Biochemistry.* (1, 1951)

Kaplan, Nathan O., Ph.D. Johns Hopkins Univ., McCallum-Pratt Inst., Baltimore 18, Md. *Assoc. Prof. of Biology.* (2, 1949)

Karel, Leonard, Ph.D. Natl. Insts. of Health. Div. of Research Grants and Fellowships, Bethesda 14, Md. *Exec. Sec., Hematology and Pharmacology Study Sections.* (3, 1947)

Karlson, Alfred G., Ph.D., D.V.M. Mayo Foundation, Rochester, Minn. *Assoc. in Exper. Pathology.* (4, 1950)

Karnovsky, Manfred L., Ph.D. Harvard Med. School, Biophysical Lab., 25 Shattuck St., Boston 15, Mass. *Assoc. in Biological Chemistry.* (2, 1951)

Karpovich, Peter V., M.D.,M.P.E. Springfield College, Springfield, Mass. *Prof. of Physiology.* (1, 1942)

Karshan, Maxwell, Ph.D. Columbia Univ., Dept. of Biological Chemistry, 630 W. 168th St., New York City 32. *Assoc. Prof. of Biochemistry.* (2, 1939)

Karsner, Howard T., M.D. Dept. of the Navy, Bureau of Medicine and Surgery, Research Div.,

Washington 25, D. C. *Med. Research Advisor.* (**4,** 1913)

Karush, Fred, Ph.D. Children's Hospital of Philadelphia, 1740 Bainbridge St., Philadelphia 46, Pa. *Asst. Prof. of Immunology in Pediatrics, Univ. of Pennsylvania.* (**6,** 1952)

Katz, Louis Nelson, M.A., M.D. 2900 Ellis Ave., Chicago, Ill. *Dir. of Cardiovascular Research, Michael Reese Hospital; Professorial Lecturer in Physiology, Univ. of Chicago.* (**1,** 1924)

Katzman, Philip A., Ph.D. St. Louis Univ. School of Medicine, 1402 S. Grand Blvd., St. Louis 4, Mo. *Prof. of Biochemistry.* (**2,** 1935)

Kaulbersz, Jerzy, Ph.D. M.D. Collegium Medica, Grzegorzecka 16, Cracow, Poland. *Prof. of Physiology.* (**1,** 1944)

Kaunitz, Hans, M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Research Assoc. in Pathology.* (**4,** 1947)

Kazal, Louis Anthony, Ph.D. Sharp & Dohme, Inc., Research Div., Glenolden, Pa. *Dir., Biological Development.* (**2,** 1947)

Keats, Arthur S., M.D. Massachusetts General Hospital, Dept. of Anesthesia, Boston 14. *Asst. Resident.* (**3,** 1951)

Keeton, Robert W., M.S., M.D. 8 S. Michigan Ave., Chicago 3, Ill. *Prof. Emeritus of Medicine, Univ. of Illinois, College of Medicine.* (**1,** 1916; **3,** 1924)

Kehoe, Robert A., M.D. Univ. of Cincinnati College of Medicine, Kettering Lab. of Applied Physiology, Eden Ave., Cincinnati, Ohio. *Research Prof. of Physiology.* (**1,** 1940)

Keiles, Elsa Orent, D.Sc. Natl. Insts. of Health, Div. of Research Grants, Bethesda 14, Md. *Biochemist.* (**2,** 1935; **5,** 1935)

Keith, Norman M., M.D. Mayo Clinic, Rochester, Minn. *Consulting Physician Emeritus, Div. of Medicine, Mayo Clinic; Prof. of Medicine, Mayo Foundation, Univ. of Minnesota.* (**1,** 1920; **3R,** 1932; **4,** 1924)

Keith, T. B., Ph.D. Dept. of Animal Husbandry, Univ. of Idaho, Moscow. (**5,** 1941)

Kellaway, Peter E., Ph.D. Baylor Univ. College of Medicine, Houston, Texas. *Assoc. Prof. of Neuropsychiatry and Physiology; Dir. of Lab. of Clin. Electrophysiology.* (**1,** 1947)

Keller, Allen D., Ph.D. Army Med. Research Lab., Fort Knox, Ky. (**1,** 1931)

Kellner, Aaron, M.D. Cornell Univ. Med. College, Dept. of Pathology, 1300 York Ave., New York City 21. *Asst. Prof. of Pathology; Dir. of Central Labs., New York Hospital–Cornell Med. Center.* (**4,** 1949)

Kelsey, F. Ellis, Ph.D. Univ. of South Dakota, Dept. of Pharmacology, Vermillion. *Prof. of Pharmacology; Chairman of Depts. of Physiology and of Pharmacology.* (**3,** 1941)

Kelsey, Frances Kathleen O., Ph.D. Univ. of South Dakota, Dept. of Pharmacology, Vermillion. (**3,** 1941)

Kemmerer, A. R., Ph.D. Univ. of Arizona, Tucson. *Head of Dept. of Human Nutrition.* (**5,** 1946)

Kempe, Henry C. M.D. Univ. of California, School of Medicine, Dept. of Pediatrics, San Francisco 22. *Asst. Prof.* (**6,** 1951)

Kempner, Walter, M.D. Duke Univ. School of Medicine, Durham, N. C. *Asst. Prof. of Medicine.* (**1,** 1940)

Kendall, Edward C., Ph.D. 3 Queenston Place, Princeton, N. J. *Visiting Prof. in Chemistry, James Forrestal Research Center, Princeton Univ.* (**1,** 1916; **2,** 1913; **4,** prior to 1920).

Kendall, Forrest E., Ph.D. 240-06-53rd Ave., Douglaston, Long Island, N. Y. *Asst. Prof. of Biochemistry, Research Service, Columbia Div., Goldwater Memorial Hospital Welfare Island.* (**6,** 1943)

Kennard, Margaret A., M.D. Univ. of British Columbia, Hut S-4, Vancouver, B. C., Canada. (**1,** 1934)

Kennedy, Cornelia, Ph.D. 2700 W. Robbins St., Minneapolis 10, Minn. *Prof. Emeritus of Agricultural Biochemistry, Univ. of Minnesota.* (**2,** 1924; **5R,** 1934)

Kensler, Charles J., Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City 21. *Asst. Prof., Dept. of Pharmacology; Sr. Research Fellow, Natl. Research Council.* (**3,** 1949)

Kent, John F., Ph.D. Army Med. Center, Washington 12, D. C. *Chief, Dept. of Serology, Army Med. Service Grad. School.* (**6,** 1947)

Kenton, Harold B., Ph.D. New England Deaconess Hospital, Boston, Mass. *Bacteriologist and Dir. of the Blood Bank.* (**6,** 1934)

Kenyon, Allan T., M.D. Univ. of Chicago, Div. of Biological Sciences, 950 E. 59th St., Chicago, Ill. *Asst. Prof. of Medicine.* (**3,** 1940)

Keresztesy, John C., Ph.D. Natl. Insts. of Health, Bethesda 14, Md. *Scientist Officer, Div. of Physiology.* (**2,** 1941; **5,** 1945)

Kerr, Stanley E., Ph.D. American Univ. of Beirut, Beirut, Lebanon. *Prof. of Biological Chemistry.* (**2,** 1937)

Kerr, Wm. J., M.D. Univ. of California Hospital, 3rd and Parnassus Aves., San Francisco. *Physician-in-Chief; Prof. of Medicine, Univ. of California.* (**3,** 1930)

Kesten, Homer D., M.D. Columbia Univ. College of Physicians and Surgeons, New York City 32. *Assoc. Prof. of Pathology.* (**4,** 1931)

Keston, Albert S., Ph.D. New York Univ. College of Medicine, 477 First Ave., New York City. *Asst. Prof., Dept. of Biochemistry.* (**2,** 1950)

Kety, Seymour S., M.D. Natl. Insts. of Health, Bethesda 14, Md. *Assoc. Dir. in charge of Research, Natl. Inst. of Mental Health and Inst. of*

Neurology and Blindness; Prof. of Clin. Physiology, Univ. of Pennsylvania Grad. School of Medicine, Philadelphia. (**1**, 1949; **3**, 1945)

Keys, Ancel, Ph.D. Univ. of Minnesota, Stadium Gate 27, Minneapolis 14. *Prof. and Dir. of Lab. of Physiological Hygiene.* (**1**, 1939; **2**, 1936)

Kibrick, Andre C., Ph.D. New York Univ., College of Medicine, 477 First Ave., New York City 16. *Research Assoc., Medicine.* (**2**, 1950)

Kidd, John G., M.D. Cornell Univ. Med. College, 1300 York Ave., New York City 21. *Prof. of Pathology; Pathologist, New York Hospital.* (**4**, 1937; **6**, 1937)

Kidder, George W., Ph.D. Amherst College, Amherst, Mass. *Stone Prof. of Biology.* (**2**, 1949)

Kies, Marian W., Ph.D. Natl. Science Foundation, 2144 California St. N.W., Washington 25, D. C. *Biochemist, Biological Sciences Div.* (**2**, 1948)

Kik, M. C., Ph.D. Univ. of Arkansas College of Agriculture, Fayetteville. *Prof. of Agricultural Chemistry.* (**5**, 1942)

Kilborn, Leslie G., M.D., Ph.D. c/o Mr. J. R. Hilliard, 117 Divadale Dr., Toronto, Ontario, Canada. (**1**, 1928)

Kilham, Lawrence, M.D., Natl. Insts. of Health, Bethesda 14, Md. *Surgeon, USPHS.* (**6**, 1950)

Killian, John Allen, Ph.D. Killian Research Labs., Inc., 49 W. 45th St., New York City. (**2**, 1921)

Kimura, Kazuo K., Ph.D. St. Louis Univ. School of Medicine, Dept. of Pharmacology, St. Louis 4, Mo. *Instructor.* (**3**, 1950)

Kinard, F. W., Ph.D., M.D. Med. College of the State of South Carolina, Charleston 16. *Assoc. Prof. of Physiology.* (**1**, 1947)

King, Barry G., Ph.D. Dept. of Commerce, Civil Aeronautics Admin., Med. Service, Safety Regulations, Washington, D. C. *Chief, Aeromed. Design and Material Div.* (**1**, 1938)

King, Charles Edwin, Ph.D. Vanderbilt Univ., Nashville, Tenn. *Assoc. Prof. of Physiology.* (**1**, 1916)

King, Charles Glen, Ph.D. Nutrition Foundation, Inc., Chrysler Building, New York City. *Scientific Dir.; Prof. of Chemistry, Columbia Univ.* (**2**, 1931; **5**, 1933)

King, Henry Eugene, Ph.D. Tulane Univ. School of Medicine, Dept. of Psychiatry and Neurology, 1430 Tulane Ave., New Orleans 12, La. *Asst. Prof.; Visiting Scientist, Charity Hospital of Louisiana.* (**1**, 1950)

King, Jesse, Ph.D Towson, Md. (**1R**, 1914)

King, Joseph T., M.D., Ph.D. Univ. of Minnesota Med. School, 314 Millard Hall, Minneapolis. *Assoc. Prof. of Physiology.* (**1**, 1931)

King, Tsoo E., Ph.D. Oregon State College, Dept. of Chemistry, Corvallis. *Asst. Prof.* (**2**, 1952)

Kinney, Thomas D., M.D. Cleveland City Hospital, 3395 Scranton Rd., Cleveland, Ohio. *Dir. of Labs.; Prof. of Pathology, Western Reserve Univ.* (**4**, 1950)

Kirch, Ernst R., Ph.D. Univ. of Illinois College of Pharmacy, 808 S. Wood St., Chicago 12. *Prof. of Chemistry.* (**2**, 1948)

Kirchhof, Anton C., M.S., M.D. 758 S. View Rd., Oswego, Ore. *Anesthesiologist, Providence, Veterans, and Matson Memorial Hospitals.* (**3**, 1947)

Kirk, John E., M.D. Washington Univ. School of Medicine, 5600 Arsenal St., St. Louis 9, Mo. *Research Dir., Gerontology.* (**2**, 1950)

Kirk, Paul L., Ph.D. Univ. of California, Berkeley. *Prof. of Biochemistry.* (**2**, 1933)

Kirschbaum, Arthur, M.D., Ph.D. Univ. of Illinois College of Medicine, Chicago. *Prof. of Anatomy.* (**4**, 1948)

Kisch, Bruno, M.D. Yeshiva Univ., New York City. *Prof. of Biochemistry.* (**1**, 1943)

Kleiber, M., D.Sc. Univ. of California, Davis. *Prof. of Animal Husbandry.* (**1**, 1943; **5**, 1933)

Klein, J. Raymond, Ph.D. Brookhaven Natl. Lab., Upton, L. I., N. Y. *Sr. Biochemist, Dept. of Biology.* (**2**, 1941)

Kleiner, Israel Simon, Ph.D. New York Med. College and Flower and Fifth Ave. Hospital, New York City 29. *Prof. of Biochemistry, Dir., Dept. of Biochemistry.* (**1**, 1911; **2**, 1912; **3R**, 1912; **5R**, 1933)

Kleitman, Nathaniel, Ph.D. Univ. of Chicago, Chicago, Ill. *Prof. of Physiology.* (**1**, 1923)

Klemperer, Friedrich W., M.D. Veterans Admin. Hospital, Sunmount, New York. *Chief of Med. Service.* (**2**, 1941)

Kletzien, Seymour W., Ph.D. 330 S. Ninth St., Philadelphia, Pa. Nutrition Research Clinic, Philadelphia Lying-In and Pennsylvania Hospitals. *Biochemist.* (**5**, 1933)

Kline, O. L., Ph.D. Federal Security Agency, Food and Drug Admin., Washington, D. C. *Biochemist.* (**5**, 1936)

Kline, Raymond F., Ph.D. 6832 Knollwood Dr., Dayton 3, Ohio. *Research Physiologist, Aero Med. Lab., Wright Air Development Center, Wright-Patterson Air Force Base.* (**1**, 1946)

Klotz, Irving M., Ph.D. Northwestern Univ., Evanston, Ill. *Prof. of Chemistry.* (**2**, 1947)

Klüver, Heinrich, Ph.D. Univ. of Chicago, Chicago, Ill. *Prof. of Exper. Psychology.* (**1**, 1935)

Knight, C. Arthur, Ph.D. Univ. of California, Biochemistry and Virus Lab., Berkeley 4. *Assoc. Prof.* (**2**, 1946)

Knisely, Melvin H., Ph.D. Med. College of South Carolina, Charleston. *Chairman of Dept. of Anatomy.* (**1**, 1949)

Knoefel, Peter K., M.A., M.D. Univ. of Louisville, 101 W. Chestnut St., Louisville, Ky. *Prof. and Chairman of Dept. of Pharmacology.* (**3**, 1934)

Knowlton, Frank P., M.D. Syracuse Univ. College

of Medicine, Syracuse, N. Y. *Prof. Emeritus of Physiology.* (**1R,** 1911)

Knowlton, G. Clinton, Ph.D. Emory Univ., Room 101, Physiology Bldg., Emory University, Ga. (**1,** 1938)

Knox, W. Eugene, M.D. Tufts College Med. School, 136 Harrison Ave., Boston 11, Mass. *Assoc. Prof. of Biochemistry.* (**2,** 1948)

Knudson, Arthur, Ph.D. Albany Med. College, New Scotland Ave., Albany, N. Y. *Prof. of Biochemistry and Assoc. Dean.* (**2,** 1919; **5,** 1936)

Knutti, Ralph Eddy, M.D. Children's Hospital, Los Angeles, Calif. *Dir. of Labs.; Asst. Prof. of Pathology, Univ. of Southern California.* (**4,** 1933)

Kober, Philip A., B.S. Sherman Labs., Detroit, Mich. *Dir. of Research.* (**2R,** 1912)

Kobrak, Heinrich G., Ph.D. Univ. of Chicago, Chicago, Ill. *Asst. Prof. of Surgery.* (**1,** 1948)

Kochakian, Charles D., Ph.D. Oklahoma Med. Research Inst., 825 N.E. 13th St., Oklahoma City. *Assoc. Dir.; Prof. of Research Biochemistry.* (**1,** 1942; **2,** 1948)

Kocher, Rudolph Alfred, M.D. Box 936, Carmel, Calif. *Dir. of Velie Metabolic Clinic.* (**2,** 1915)

Kocholaty, Walter F., Ph.D. Army Med. Research Lab.; Fort Knox, Ky. *Biochemist, Dept. of Biochemistry.* (**2,** 1950)

Koehler, Alfred E., M.D., Ph.D. 317 W. Pueblo St., Santa Barbara, Calif. *Physician, Sansum Clinic, Santa Barbara Cottage Hospital.* (**2,** 1924)

Koehn, Carl J., Ph.D. Surgeon General's Office, Preventive Medicine Div., Washington, D. C. *Chief, Nutrition Branch.* (**5,** 1949)

Koehne, Martha, Ph.D. 683 Glenmont Ave., Columbus 14, Ohio. *Nutritionist, Ohio State Dept. of Health.* (**5R,** 1933)

Koelle, George B., Ph.D., M.D. Univ. of Pennsylvania, Grad. School of Medicine, Dept. of Physiology and Pharmacology, Philadelphia 4. *Prof. of Pharmacology.* (**3,** 1947)

Koepf, George F., M.D. 537 Delaware Ave., Buffalo 2, N. Y. *Assoc. in Physiology, Univ. of Buffalo.* (**1,** 1942)

Koerber, Walter L., Ph.D. E. R. Squibb and Sons, New Brunswick, N. J. *Asst. Dept. Head.* (**6,** 1943)

Kohlstaedt, Kenneth G., M.D. Lilly Lab. for Clinical Research, Indianapolis General Hospital, Indianapolis 7, Ind. *Director.* (**1,** 1947)

Kohn, Henry I., Ph.D., M.D. Univ. of California Hospital, Radiology Dept., San Francisco. *Sr. Surgeon, USPHS.* (**1,** 1940)

Koletsky, Simon, M.D. Western Reserve Univ. School of Medicine, 2085 Adelbert Rd., Cleveland 6, Ohio. *Assoc. Prof. of Pathology.* (**4,** 1951)

Kolmer, John A., M.S., M.D., D.P.H. 2101 Pine St., Philadelphia, Pa. *Prof. of Medicine, Temple Univ.; Dir., Research Inst. of Cutaneous Medicine.* (**6R,** 1913)

Komarov, Simon A., M.D., Ph.D. S.S. Fels Fund, Med. Research Lab., 255 S. 17th St., Philadelphia, Pa. *Dir. of Dept. of Biochemistry, Temple Univ. School of Medicine.* (**1,** 1933)

Kopeloff, Nicholas, Ph.D. New York State Psychiatric Inst., 722 W. 168th St., New York City. *Principal Research Bacteriologist, New York State Psychiatric Inst. and Hospital.* (**6,** 1937)

Koppanyi, Theodore, Ph.D. Georgetown Univ., Washington, D. C. *Prof. of Pharmacology.* (**1,** 1924; **3,** 1935)

Koprowski, Hilary, M.D. Lederle Labs. Div., American Cyanamid Co., Pearl River, N. Y. *Asst. Dir., Viral and Rickettsial Research.* (**6,** 1946)

Korkes, Seymour, M.D. New York Univ.-Bellevue Med. Center, 477 First Ave. New York City 16. *Asst. Prof.* (**2,** 1952)

Kornberg, Arthur, M.D. Natl. Insts. of Health, Bethesda 14, Md. *Sr. Surgeon.* (**2,** 1949)

Korr, Irwin M., Ph.D. Kirksville College of Osteopathy and Surgery, Kirksville, Mo. *Prof. of Physiology.* (**1,** 1939)

Koshland, Marian Elliott, Ph.D. Brookhaven Natl. Lab., Upton, L. I., N. Y. (**6,** 1950)

Kosman, A. J., Ph.D. Northwestern Univ. Med. School, Dept. of Physiology, 303 E. Chicago Ave., Chicago 11, Ill. *Asst. Prof.* (**1,** 1949)

Koster, Rudolf, Ph.D. Tulane Univ., Dept. of Pharmacology, Station 20, New Orleans, La. *Asst. Prof.* (**3,** 1949)

Kottke, Frederic J., Ph.D., M.D. Univ. of Minnesota, Minneapolis. *Baruch Fellow in Physical Medicine.* (**1,** 1947)

Kozelka, Frank L., Ph.D. Univ. of Wisconsin, Dept. of Pharmacology and Toxicology, Madison 6. *Prof. of Clin. Pathology.* (**3,** 1939)

Kozloff, Lloyd M., Ph.D. Univ. of Chicago, Dept. of Biochemistry, Chicago 37, Ill. *Asst. Prof. of Biochemistry.* (**2,** 1951)

Kraatz, Charles P., Ph.D. Jefferson Med. College, 1025 Walnut St., Philadelphia, Pa. *Assoc. Prof. of Pharmacology.* (**3,** 1950)

Krahl, Maurice E., Ph.D. Washington Univ. School of Medicine, St. Louis 10, Mo. *Assoc. Prof. of Biological Chemistry.* (**2,** 1939; **3,** 1949)

Krakower, Cecil Alexander, M.D. Univ. of Illinois College of Medicine, 1853 West Polk St., Chicago. *Prof. of Pathology.* (**4,** 1945)

Kramer, Benjamin, A.M., M.D. 60 Plaza St., Brooklyn 17, N. Y. *Pediatrician-in-Chief, Brooklyn Jewish Hospital; Prof. of Clin. Pediatrics, Long Island College Med. School.* (**1,** 1915; **2,** 1914)

Kramer, Martha, Ph.D. Kansas State College, Manhattan. *Asst. Dean, School of Home Economics.* (**5,** 1933)

Kramer, S. D., M.D., Ph.D. 92 Washington Sq. East, Salem, Mass. *Virologist.* (**6,** 1944)

Krampitz, Lester O., Ph.D. Western Reserve Univ., 2109 Adelbert Rd., Cleveland 6, Ohio. *Prof. of Microbiology.* (**2,** 1946; **6,** 1949)

Krantz, John C., Jr., Ph.D. Univ. of Maryland Med. School, Baltimore. *Prof. of Pharmacology.* (**3,** 1937)

Kratzer, F. H., Ph.D. Univ. of California, Div. of Poultry Husbandry, Davis. *Asst. Prof.* (**5,** 1949)

Krauss, William E., Ph.D. Ohio Agricultural Exper. Station, Wooster. *Assoc. Dir.* (**2,** 1932; **5,** 1933)

Kraybill, Henry R., Ph.D. 5720 Woodlawn Ave., Chicago 37, Ill. *Professorial Lecturer, Dept. of Biochemistry, Univ. of Chicago; Dir. of Research and Education, American Meat Inst. Foundation.* (**2,** 1942; **5,** 1951)

Krayer, Otto, M.D. Harvard Med. School, 25 Shattuck St., Boston, Mass. *Prof. and Head of Dept. of Pharmacology.* (**3,** 1938)

Krebs, Edwin G., M.D. Univ. of Washington, Dept. of Biochemistry, Seattle 5. *Asst. Prof.* (**2,** 1952)

Kreezer, George L., Ph.D. Washington Univ., St. Louis 10, Mo. *Assoc. Prof. of Psychology.* (**1,** 1948)

Krehl, Willard A., Ph.D. Yale Univ., 333 Cedar St., New Haven. Conn. *Assoc. Prof. of Nutrition.* (**2,** 1947; **5,** 1949)

Kritchevsky, Theodore H., Ph.D. 171 Fort Lee Rd., Leonia, N. J. *Sloan-Kettering Inst. for Cancer Research.* (**2,** 1952)

Krop, Stephen, Ph.D. Chemical Corps Med. Labs., Army Chemical Center, Md. *Deputy Chief, Physiology Div.* (**1,** 1949; **3,** 1944)

Krueger, Albert Paul, M.D. Univ. of California, Berkeley. *Prof. and Chairman, Dept. of Bacteriology; Scientific Dir., Naval Biological Lab.* (**4,** 1930; **6,** 1937)

Krueger, Hugo, Ph.D. Oregon State College, Dept. of Zoology, Corvallis. *Prof. of Physiology.* (**1,** 1931; **3,** 1935)

Krumbhaar, Edward B., M.D., Ph.D. Univ. of Pennsylvania Med. School, Philadelphia. *Prof. Emeritus of Pathology.* (**1R,** 1914; **4,** prior to 1920)

Kruse, Harry Dayton, M.D., Sc.D. New York Academy of Medicine, 2 E. 103rd St., New York City 29. *Exec. Secy., Committee on Public Health Relations.* (**2,** 1933; **5,** 1950)

Kruse, Theophile K., Ph.D. Univ. of Pittsburgh Med. School, Pittsburgh, Pa. *Prof. of Physiology and Pharmacology.* (**1,** 1919; **3,** 1920)

Kubicek, William G., Ph.D. Univ. of Minnesota Hospitals, Div. of Physical Medicine, Minneapolis. *Assoc. Prof.* (**1,** 1947)

Kubie, Lawrence S., M.D. 7½ E. 81st. St., New York City 28. *Clin. Prof. of Psychiatry and Mental Hygiene, Yale Univ. School of Medicine; Faculty, N. Y. Psychoanalytic Inst.* (**4,** 1928)

Kuffler, Stephen W., M.D. Johns Hopkins Med. School, Wilmer Inst., Baltimore 5, Md. *Assoc. Prof. of Physiological Optics.* (**1,** 1949)

Kuhn, Harry A., M.S. 3915 Fulton St. N. W., Washington, D. C. *Consultant.* (**3,** 1927)

Kuiken, Kenneth A., Ph.D. Buckeye Cotton Oil Co., Development Lab., Ivorydale, Cincinnati 17, Ohio. *Head, Products Service and Nutritional Development Dept.* (**2,** 1950)

Kuizenga, Marvin H., Ph.D. Upjohn Company, Kalamazoo, Mich. *Head of Dept. of Pharmacology-Endocrinology.* (**2,** 1947)

Kun, Ernest, M.D. Tulane Univ., Dept. of Medicine and Biochemistry, 1430 Tulane Ave., New Orleans 12, La. *Asst. Prof.* (**3,** 1949)

Kunde, Margarete M., Ph.D., M.D. 30 N. Michigan Ave., Suite 1308, Chicago, Ill. *Instr. in Medicine, Northwestern Univ. Med. School; Clin. Asst. in Endocrinology, Cook County Hospital.* (**1,** 1924)

Kunitz, Moses, Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Member.* (**2,** 1947)

Kupperman, Herbert S., M.D., Ph.D. New York Univ. College of Medicine, Dept. of Therapeutics, 477 First Ave., New York City. *Research Assoc.* (**3,** 1950)

Kurtz, Alton C., Ph.D. Univ. of Oklahoma Med. School, Dept. of Biochemistry, Oklahoma City. *Assoc. Prof.* (**2,** 1942)

Kuyper, Adrian C., Ph.D. Wayne Univ. College of Medicine, Detroit 26, Mich. *Asst. Prof. of Physiological Chemistry.* (**2,** 1946)

Kydd, David M., M.D. Yale Univ. School of Medicine, New Haven, Conn. *Assoc. Prof. of Medicine.* (**5,** 1934)

Kyes, Preston, Sc.D., M.D. North Jay, Maine. *Prof. Emeritus.* (**6R,** 1918)

Kyker, Granvil C., Ph.D. Oak Ridge Inst. of Nuclear Studies, Med. Div., P.O. Box 117, Oak Ridge, Tenn. *Principal Scientist.* (**2,** 1947)

LaBelle, Annette, B.A., 271 Alta Vista Dr., Tuckahoe 7, N. Y. (**1,** 1948)

Lackey, Robert W., Ph.D. Southwestern Med. College, Dept. of Physiology and Pharmacology, Dallas 4, Texas. *Prof. of Physiology.* (**1,** 1947)

Lackman, David B., Ph.D. U. S. Public Health Service, Rocky Mountain Lab., Hamilton, Mont. *Scientist, USPHS; Serologist-Immunologist.* (**6,** 1952)

Lacorte, Jose G., M.D. Instituto Oswaldo Cruz, Rio de Janeiro, Brazil, S. A. *Dir., Virus Section.* (**6,** 1946)

Lacy, G. R., M.D. Univ. of Pittsburgh, Pittsburgh, Pa. *Prof. of Bacteriology and Immunology.* (**4,** 1927)

Lalich, Joseph J., M.D. Univ. of Wisconsin, 426

N. Charter St., Madison 6. *Assoc. Prof. of Pathology.* (**4,** 1946)

Lamb, Alvin R., Ph.D. Hawaiian Sugar Planters' Assoc., Exper. Station, Honolulu. *Research Assoc.* (**2,** 1923; **5,** 1934)

Lambert, Edward H., Ph.D., M.D. Mayo Foundation, Rochester, Minn. *Asst. Prof. of Physiology.* (**1,** 1945)

Lambert, Robert A., M.D. Meharry Med. College, Nashville 8, Tenn. (**4,** 1922)

Lambertsen, Christian J., M.D. Univ. of Pennsylvania School of Medicine, Philadelphia. *Asst. Prof. of Pharmacology.* (**3,** 1948)

Lampen, J. Oliver, Ph.D. Western Reserve Univ. School of Medicine, Cleveland 6, Ohio. *Assoc. Prof. of Microbiology.* (**2,** 1947)

Lamport, Harold, M. D. Yale Univ. School of Medicine, New Haven, Conn. *Assoc. Prof. of Physiology.* (**1,** 1943)

Lamson, Baldwin G., Univ. of California, School of Medicine, Los Angeles 24. *Asst. Prof. of Pathology; Pathologist, Wadsworth Hosp., V.A. Center.* (**4,** 1952)

Lamson, Paul Dudley, M.D. Vanderbilt Univ. Med. School, Nashville, Tenn. *Prof. of Pharmacology.* (**1,** 1921; **3R,** 1915)

Lancefield, Rebecca C., Ph.D. 66th St. and York Ave., New York City 21. *Assoc. Member, Rockefeller Inst. for Med. Research.* (**6,** 1933)

Landis, Carney, Ph.D. Columbia Univ., Psychiatric Inst., 722 W. 168th St., New York City. *Principal Research Psychologist and Prof. of Psychology.* (**1,** 1939)

Landis, Eugene Markley, Ph.D., M.D. Harvard Med. School, Dept. of Physiology, 25 Shattuck St., Boston, Mass. *George Higginson Prof. of Physiology.* (**1,** 1928)

Landowne, Milton, M.D. 6101 Stewart Ave., Baltimore 9, Md. *Assoc. Chief, Cardiovascular Disease and Gerontology Section, Baltimore City Hospital.* (**1,** 1947)

Lands, Alonzo, M., Ph.D. Sterling-Winthrop Research Inst., Rensselaer, N. Y. *Head, Pharmacology Section.* (**1,** 1942; **3,** 1947)

Landy, Maurice, Ph.D. Army Med. Service Grad. School, Walter Reed Army Med. Center, Washington 12, D. C. *Chief, Dept. of Bacterial Physiology.* (**6,** 1952)

Lane, Charles E., Ph.D. Univ. of Miami, Marine Lab., Coral Gables, Fla. *Research Assoc.; Assoc. Prof. of Marine Biology.* (**1,** 1952)

Lange, Carl, M.D. 371 Morris St., Albany, N. Y. *Assoc. Bacteriologist, Divs. of Labs. and Public Health, N. Y. State Dept. of Health.* (**6,** 1938)

Langham, Wright H., Ph.D. Univ. of California, Los Alamos Scientific Lab., Health Div., P. O. Box 1663, Los Alamos, N.M. *Dir. of Biological and Med. Research.* (**2,** 1951)

Langley, L. L., Ph.D. Med. College of Alabama, Birmingham. *Asst. Prof. of Physiology.* (**1,** 1951)

Langley, Wilson D., Ph.D. Univ. of Buffalo Med. School, 24 High St., Buffalo, N. Y. *Prof. of Biochemistry.* (**2,** 1937)

Langworthy, Orthello R., M.A., M.D. Johns Hopkins Hospital, Baltimore, Md. *Assoc. Prof. of Psychiatry, Johns Hopkins Univ.* (**1,** 1928)

Lanni, Frank, Ph.D. Univ. of Illinois, Dept. of Bacteriology, Urbana. (**6,** 1949)

Lapicque, L. The Sorbonne, Lab. of Physiology, Paris, France. (**1H,** 1946)

Laqueur, Gert Ludwig, Natl. Insts. of Health, Natl. Inst. of Arthritis and Metabolic Diseases, Bethesda 14, Md. *Pathologist.* (**4,** 1952)

Lardy, Henry A., Ph.D. Inst. for Enzyme Research, Univ. of Wisconsin, Madison 6. *Prof. of Biochemistry.* (**2,** 1946)

Larrabee, Martin G., Ph.D. Johns Hopkins Univ., Biophysics Dept., Baltimore 18, Md. *Assoc. Prof.* (**1,** 1940)

Larsen, Eleanor M., Ph.D. Univ. of Wisconsin, Dept. of Physiology, S. M. I., Madison 6. *Instr. in Physiology.* (**1,** 1949)

Larson, Carl L., M.D. U. S. Public Health Service, Rocky Mountain Lab., Microbiological Inst., Hamilton, Mont. *Director.* (**6,** 1948)

Larson, Edward, Ph.D. Med. Research Unit of Veterans Hospital, Univ. of Miami, Coral Gables, Fla. *Prof. of Physiology and Pharmacology.* (**1,** 1929; **3,** 1937)

Larson, Hardy W., Ph.D. Metropolitan Life Insurance Co., Biochemical Lab., 1 Madison Ave., New York City. *Research Chemist.* (**2,** 1937)

Larson, Paul S., Ph.D. Med. College of Virginia, Richmond. *Research Prof. of Pharmacology.* (**1,** 1939; **3,** 1947)

Lashley, K. S., Ph.D. Yerkes Labs., Orange Park, Fla. *Research Prof. of Neuropsychology, Harvard Univ.; Dir., Yerkes Labs. of Primate Biology, Inc.* (**1,** 1923)

Laskowski, M., Ph.D. Marquette Univ. Med. School, Milwaukee 3, Wis. *Prof. of Biochemistry.* (**2,** 1944)

Last, Jules H., Ph.D., M.D. 668 Park Ave., Highland Park, Ill. *Asst. Prof. Exper. Medicine, Northwestern Univ.* (**3,** 1948)

Lauffer, Max A., Jr., Ph.D. Univ. of Pittsburgh, Pittsburgh 13, Pa. *Research Prof. and Head of Dept. of Biophysics.* (**2,** 1946)

Laug, E. P., Ph.D. Food and Drug Admin., Div. of Pharmacology, 12th and C Sts. S. W., Washington 25, D. C. *Sr. Pharmacologist.* (**2,** 1938; **3,** 1947)

Laurens, Henry D., Ph.D., M.D. Box 157, Flatrock, N. C. (**1R,** 1913)

Lauson, Henry D., Ph.D., M.D. Cornell Univ.

Med. College, Dept. of Physiology, 1300 York Ave., New York City 21, *Assoc. Prof.* (**1,** 1946)

Lavik, Paul S., Ph.D. Western Reserve Univ., School of Medicine, Cleveland 6, Ohio. *Asst. Prof. in Biochemistry; Sr. Instr. in Radiology.* (**2,** 1952)

Lavine, T. F., Ph.D. Lankenau Hospital Research Inst., Philadelphia, Pa. *Research Chemist.* (**2,** 1938)

Law, Lloyd William, Natl. Insts. of Health, Natl. Cancer Inst., Bethesda 14, Md. *Principal Geneticist; Head, Leukemia Studies Unit.* (**4,** 1952)

Lawrence, H. Sherwood, M.D. New York Univ. College of Medicine, 477 First Ave., New York City 16. *Dir. of Student Health.* (**6,** 1951)

Lawrence, John H., M.D. Univ. of California, Donner Lab., Berkeley 4. *Dir.; Prof. of Exper. Medicine.* (**1,** 1952)

Lawrence, W. Sherwood, M.D. 906 Hazel St., Gridley, Calif. *Physician and Surgeon.* (**3,** 1944)

Lawson, Hampden, M.D., Ph.D. Univ. of Louisville, Louisville, Ky. *Prof. of Physiology.* (**1,** 1933)

Lawton, Alfred H., M.D., Ph.D. Aero Meadows, Rt. 3, Herndon, Va. *Med. Officer (Gen.), USAF Directorate of Research & Develop., Human Resources Div., Washington, D. C.* (**1,** 1949; **3,** 1948)

Lawton, Richard W., M.D. Cornell Univ. Med. College, Dept. of Physiology, 1300 York Ave., New York City 21. *Instr.* (**1,** 1951)

Leake, Chauncey D., Ph.D. Univ. of Texas Med. Branch, Galveston, *Vice-Pres. of Univ. of Texas in Charge of Med. Program.* (**1,** 1923; **3,** 1924)

Leathem, James H., Ph.D. Rutgers Univ., New Brunswick, N. J. *Prof. of Zoology.* (**1,** 1945)

Lederer, Ludwig George, Ph.D., M.D. Natl. Airport, Room 70, Washington, D. C. *Med. Dir.* (**1,** 1940)

Lee, Douglas H. K., M.D. Johns Hopkins Univ., I. Bowman School of Geography, Baltimore 18, Md. *Prof. of Physiological Climatology; Lecturer in Physiological Hygiene.* (**1,** 1949)

Lee, Henry M., Ph.D. Eli Lilly and Co., 740 South Alabama, Indianapolis 6, Ind. *Pharmacologist.* (**3,** 1952)

Lee, Milton O., Ph.D. 2101 Constitution Ave., Washington 25, D. C. *Exec. Sec. and Managing Editor, American Physiological Society; Federation Sec.* (**1,** 1927; **5,** 1933)

Lee, Richard E., Ph.D., M.D. New York Hospital, Dept. of Medicine, New York City 21. *Fellow in Medicine, Cornell Univ. College of Medicine.* (**1,** 1950)

Leese, Chester E., Ph.D. George Washington Univ. School of Medicine, Washington, D. C. *Prof. and Head of Dept. of Physiology.* (**1,** 1934)

LeFevre, Paul G., Ph.D. Univ. of Vermont College of Medicine, Dept. of Physiology and Biophysics, Burlington. *Asst. Prof.* (**1,** 1950)

Lehman, Arnold J., Ph.D., M.D. Food and Drug Admin., Washington 25, D. C. *Chief, Div. of Pharmacology.* (**3,** 1937)

Lehman, Robert A., Ph.D. Campbell Pharmaceutical Co., 254 W. 31st St., New York City 1. *Dir. of Research.* (**3,** 1942)

Lehninger, Albert L., Ph.D. Johns Hopkins Univ., School of Medicine, Baltimore 5, Md. *Delamar Prof. of Physiological Chemistry; Dir. of Dept.* (**2,** 1946)

Lehr, David, M.D. New York Med. College, Flower and Fifth Ave. Hospitals, Fifth Ave. at 105th St., New York City 29. *Assoc. Prof. in Pharmacology and Medicine.* (**3,** 1947)

Leichsenring, Jane M., Ph.D. Univ. of Minnesota, Univ. Farm, St. Paul. *Prof. of Nutrition.* (**5,** 1948)

Leimdorfer, Alfred, M.D. Stritch School of Medicine of Loyola Univ., 706 S. Wolcott Ave., Chicago 12, Ill. *Research Prof. of Pharmacology.* (**1,** 1947)

Lein, Allen, Ph.D. Northwestern Univ. Med. School, Dept. of Physiology, Chicago 11, Ill. *Asst. Prof.* (**1,** 1946)

Lenhart, Carl H., M.D. Lakeside Hospital, 2065 Adelbert Rd., Cleveland, Ohio. *Oliver H. Payne Prof. of Surgery, Western Reserve Univ.* (**1R,** 1921)

Lennette, Edwin H., Ph.D., M.D. California State Dept. of Public Health, 1392 University Ave., Berkeley 2. *Chief, Viral and Rickettsial Disease Lab.; Lecturer in Virology, School of Public Health, Univ. of California.* (**4,** 1941; **6,** 1947)

Leonard, Clifford Shattuck, Ph.D. 286 Whitefield St., Guilford, Conn. *Technical Assoc., Chemical-Biological Coordination Center, Natl. Research Council.* (**3,** 1927)

Leonards, Jack Ralph, Ph.D. Western Reserve Univ. Med. School, Cleveland, Ohio. *Asst. Prof. of Biochemistry.* (**2,** 1948)

Le Page, G. A., Ph.D. Univ. of Wisconsin, McArdle Memorial Lab. for Cancer Research, Madison 6. *Assoc. Prof. of Oncology.* (**2,** 1949)

Lepkovsky, Samuel, Ph.D. Univ. of California, Poultry Div., Berkeley 4. *Prof. of Poultry Husbandry.* (**2,** 1933; **5,** 1933)

Lerner, Aaron B., M.D., Ph.D. University Hospital, Ann Arbor, Mich. *Asst. Prof. of Dermatology.* (**2,** 1952)

L'Esperance, Elise L., M.D. 535 Pelham Manor Rd., Pelham Manor, N. Y. (**6,** 1920)

Lessler, Milton A., Ph.D. Ohio State Univ. College of Medicine, Columbus 10. *Asst. Prof. of Physiology.* (**1,** 1952)

Leverton, Ruth M., Ph.D. Univ. of Nebraska, Dept. of Home Economics, Lincoln. *Prof. of Human Nutrition Research.* (**5,** 1942)

Levey, Stanley, Ph.D. Univ. Hospitals of Cleveland, 2065 Adelbert Rd., Cleveland 6, Ohio. *Asst. Prof. of Biochemistry, Western Reserve Univ. College of Medicine in the Dept. of Surgery, Lakeside Hospital.* (**2,** 1951)

Levin, Louis, Ph.D. 9503 St. Andrews Way, Silver Spring, Md. *Head, Biochemistry Branch, Office of Naval Research, Washington 25, D. C.* (**2,** 1939)

Levine, Harold, Ph.D. 941 E. Sylvan Ave., Milwaukee 11, Wis. (**2,** 1933; **5,** 1933).

Levine, Philip, M.D. Ortho Research Foundation, Raritan, N. J. *Dir., Biologic Div.* (**6,** 1925)

Levine, Rachmiel, M.D. Michael Reese Hospital, Chicago, Ill. *Acting Dir., Dept. of Metabolic Research; Professorial Lecturer in Physiology, Univ. of Chicago.* (**1,** 1942)

Levine, Samuel Z., M.D., New York Hospital, 525 E. 68th St., New York City. *Prof. of Pediatrics, Cornell Univ. Med. College; Pediatrician-in-Chief, New York Hospital.* (**5,** 1933)

Levine, Victor Emanuel, Ph.D., M.D. Creighton Univ. School of Medicine, Omaha, Nebr. *Prof. of Biological Chemistry and Nutrition.* (**2,** 1936)

Levinson, Samuel A., Ph.D., M.D. Univ. of Illinois College of Medicine, 808 S. Wood St., Chicago. *Prof. of Pathology; Dir. of Labs., Research and Educational Hospital.* (**4,** 1938)

Levison, Louis A., M.D. 421 Michigan St., Toledo, Ohio. *Physician to Toledo and St. Vincent Hospitals.* (**6,** 1916)

Levy, Barnet M., M.S., D.D.S. Columbia Univ. School of Dental and Oral Surgery, 630 W. 168th St., New York City 32. *Prof. of Dentistry; Dir. of Research and Post-Grad. Studies.* (**4,** 1951)

Levy, Matthew Nathan, M.D. Western Reserve Univ. School of Medicine, Dept. of Physiology, Cleveland, Ohio. *Sr. Instr.* (**1,** 1951)

Levy, Milton, Ph.D. New York Univ. College of Medicine, 477 First Ave., New York City. *Assoc. Prof. of Chemistry.* (**2,** 1933)

Levy, Robert L., M.D. 730 Park Ave., New York City. *Prof. of Clin. Medicine, Columbia Univ. College of Physicians and Surgeons.* (**3,** 1915)

Lewis, George T., Ph.D. Med. Research Foundation, 1800 N. W. 10th Ave., Miami 36, Fla. *Chief, Div. of Biochemistry.* (**2,** 1949)

Lewis, Gladys Kinsman, Ph.D. 401 S. Lafayette St., Denver 9, Colo. *Nutrition Consultant, Colorado State Dept. of Health.* (**5,** 1944)

Lewis, Howard Bishop, Ph.D. Univ. of Michigan Med. School, Ann Arbor. *John Jacob Abel Univ. Prof. of Biological Chemistry.* (**1,** 1925; **2,** 1913; **5,** 1933)

Lewis, James C., Ph.D. U. S. Dept of Agriculture, Western Regional Research Lab., Albany 6, Calif. *Biochemist.* (**2,** 1946)

Lewis, Jessica H., M.D. Univ. of North Carolina School of Medicine, Dept. of Physiology, Chapel Hill. *Research Assoc.* (**1,** 1949)

Lewis, John R., Ph.D. Sterling-Winthrop Research Inst., Rensselaer, N. Y. *Research Assoc. in Pharmacology.* (**3,** 1950)

Lewis, Julian Herman, M.D. 4750 Champlain Ave., Chicago, Ill. *Assoc. Prof. of Pathology, Univ. of Chicago; Member, Otho S. A. Sprague Memorial Inst.* (**4,** 1924)

Lewis, Lena A., Ph.D. Cleveland Clinic, Euclid Ave. and E. 93rd St., Cleveland 6, Ohio. *Research Staff.* (**1,** 1946)

Lewis, Robert C., Ph.D. Univ. of Colorado, 4200 E. 9th Ave., Denver. *Prof. of Biochemistry; Dean, School of Medicine.* (**2,** 1931; **5,** 1933)

Lewis, Warren H., M.D. Wistar Inst. of Anatomy and Biology, Philadelphia, Pa. *Member.* (**1R,** 1919)

Ley, Herbert Leonard, Jr., M.D. 318 W. 105th St., Apt. 1-C, New York City 25. (**6,** 1949)

Li, Choh Hao, Ph.D. Univ. of California, 4596 Life Sciences Bldg., Berkeley. *Prof. of Biochemistry.* (**2,** 1944)

Li, Richard C., M.D. c/o Dr. T. S. Yu, 392 MaDang Rd., Shanghai 25, China. *Guest in Dept. of Pharmacology, Natl. Med. College of Shanghai.* (**3,** 1941)

Li, Tsung Han, M.D. Harvard Med. School, Dept. of Pharmacology, Boston 15, Mass. *Instr.* (**3,** 1951)

Libby, Raymond L., Ph.D. Veterans Admin., Wilshire and Sawtelle Blvds., Los Angeles 25, Calif. *Assoc. Prof. of Radio Biology, Univ. of California Med. School; Chief of Isotope Section, Veterans Hospital, Los Angeles.* (**6,** 1938)

Liberson, W. T., M.D. Inst. of Living, Hartford, Conn. *Neurophysiologist.* (**1,** 1948)

Libet, Benjamin, Ph.D. Univ. of California Med. Center, 104 Med. School, San Francisco. *Assoc. Prof. of Physiology, Med. School.* (**1,** 1942)

Lichstein, Herman C., Sc.D. Univ. of Minnesota Med. School, Dept. of Bacteriology and Immunology, Minneapolis 14. *Assoc. Prof.* (**2,** 1952)

Licklider, J. C. R., Ph.D. Massachusetts Inst. of Technology, Acoustics Lab., Cambridge. (**1,** 1938)

Liddell, Howard S., Ph.D. Cornell Univ., Ithaca, N. Y. *Prof. of Psychology.* (**1,** 1925)

Lieb, Charles C., M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City. *Hosack Prof. of Pharmacology.* (**1R,** 1936; **3R,** 1915)

Lieberman, Arnold L., M.D., Ph.D. 328 No. Country Club Rd., Tucson, Ariz. (**1,** 1934)

Lieberman, Seymour, Ph.D. Columbia Univ., College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. Prof. of*

Biochemistry assigned to Obstetrics and Gynecology. (**2,** 1948)

Lief, Philip A., M.D. 1777 Grand Concourse, New York City 53. *Anesthesiologist.* (**3,** 1952)

Lifson, Nathan, M.D., Ph.D. 2602 W. 54th St., Minneapolis, Minn. *Prof. of Physiology, Univ. of Minnesota Med. School.* (**1,** 1944)

Lightbody, Howard D., Ph.D. QM Food and Container Inst. for the Armed Forces, 1849 W. Pershing Rd., Chicago 9, Ill. *Dir. of Food Labs.* (**2,** 1936)

Ligon, Edgar Williams, Jr., Ph.D. Production and Marketing Admin., Insecticide Div., Agricultural Research Center, Beltsville, Md. *Pharmacologist.* (**3,** 1948)

Lilienthal, Joseph L., Jr., M.D. Johns Hopkins Hospital, Baltimore 5, Md. *Prof. of Environmental Medicine; Assoc. Prof. of Medicine.* (**1,** 1945)

Liljestrand, Gornan, M.D. Caroline Inst., Stockholm, Sweden. *Prof. of Pharmacology.* (**1H,** 1950)

Lillie, R. D., M.D. Pathology and Pharmacology Lab., Natl. Insts. of Health, Inst. of Arthritis and Metabolic Diseases, Bethesda, Md. *Chief; Med. Dir., USPHS.* (**4,** 1941)

Lilly, John C., M.D. 3400 Spruce St., Philadelphia 4, Pa. *Asst. Prof. in Biophysics, E. R. Johnson Foundation for Med. Physics, Univ. of Pennsylvania, School of Medicine.* (**1,** 1950)

Lim, Robert Kho-Seng, M.B., Ph.D., D.Sc. Miles-Ames Research Lab., Elkhart, Ind. *Head of Physiology and Pharmacology Dept.* (**1,** 1923; **3,** 1952)

Lindeman, V. F., Ph.D. Syracuse Univ., 16 Lyman Hall, Syracuse, N. Y. *Prof. of Zoology,* (**1,** 1949)

Lindsay, Stuart, M.D. Univ. of California Med. School, Univ. Hospital, San Francisco 22. *Assoc. Prof. and Pathologist.* (**4,** 1949)

Lindsley, Donald B., Ph.D. Univ. of California Med. School, Los Angeles 24. *Prof. of Psychology.* (**1,** 1937)

Linegar, Charles R., Ph.D. E. R. Squibb and Sons, Research and Development Labs., New Brunswick, N. J. *Dir., Pharmacological Development Div.* (**3,** 1938)

Lineweaver, Hans, Ph.D. U. S. Dept. of Agriculture, Western Regional Research Lab., Albany 6, Calif. *Head of Poultry Products Div.* (**2,** 1941)

Ling, Gilbert N., Ph.D. Wilmer Inst., Johns Hopkins Hospital, Baltimore, Md. *Instr. in Physiological Optics, Johns Hopkins Univ.* (**1,** 1951)

Link, Karl Paul, Ph.D. Univ. of Wisconsin, Biochemistry Bldg., Madison. *Prof. of Biochemistry.* (**2,** 1931)

Lintz, William, M.D. 36 Plaza St., Brooklyn, N. Y. *Late Prof. of Immunology and Bacteriology and Clin. Prof. of Medicine, Long Island College of Medicine.* (**6,** 1920)

Lipman, Mrs. Miriam O., A.M. Presbyterian Hospital, Dept. of Medicine, 620 W. 168th St., New York City. *Research Asst., Edward Daniels Faulkner Arthritis Clinic.* (**6,** 1931)

Lipmann, Fritz, M.D., Ph.D. Massachusetts General Hospital, Biochemical Research Lab., Boston 14. *Head; Prof. of Biological Chemistry, Harvard Med. School.* (**2,** 1941)

Lippincott, Stuart W., M.D. Univ. of Washington School of Medicine, Seattle. *Chairman, Dept. of Pathology.* (**4,** 1947)

Lippman, Richard W., M.D. 4751 Fountain Ave., Los Angeles 27, Calif. *Research Assoc., Inst. for Med. Research, Cedars of Lebanon Hospital.* (**1** 1950)

Lipton, Morris A., Ph.D., M.D. Univ. of Chicago, Dept. of Medicine, 950 E. 59th St., Chicago 37, Ill. *Asst. Prof. of Medicine.* (**2,** 1946)

Lisco, Hermann, M.D. Argonne Natl. Lab., Chicago 80, Ill. *Dir., Med. Div.; Asst. Prof. of Pathology, Univ. of Chicago.* (**4,** 1947)

Litchfield, John T., Jr., M.D. American Cyanamid Co., 1937 W. Main St., Stamford, Conn. *Pharmacologist.* (**3,** 1940)

Little, James Maxwell, Ph.D. Bowman Gray School of Medicine of Wake Forest College, Winston-Salem, N. C. *Prof. of Pharmacology; Assoc. Prof. of Physiology.* (**1,** 1942; **3,** 1947)

Little, Robert C., M.D. Univ. of Tennessee, Dept. of Physiology, Memphis. *Asst. Prof.* (**1,** 1950)

Livingston, Alfred E., Ph.D. Temple Univ. School of Medicine, Philadelphia, Pa. *Prof. of Pharmacology.* (**1,** 1917; **3R,** 1920)

Livingston, Robert B., M.D. Univ. of California, School of Medicine, Los Angeles 24. *Assoc. Prof. of Anatomy and Physiology.* (**1,** 1949)

Lloyd, David P. C., Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Assoc. Member.* (**1,** 1939)

Locke, Arthur P., Ph.D. 9 Radcliffe Ave., Apt. 1A, Highland Park, N. J. *Chief Research Chemist, Zonite Products Corp., New Brunswick, N. J.* (**6,** 1926)

Lodholz, Edward, M.D. Univ. of Pennsylvania, Med. Labs., Philadelphia. *Prof. Emeritus of Physiology, Grad. School of Medicine.* (**1,** 1913)

Loeb, Leo, M.D. Washington Univ. Med. School, St. Louis, Mo. *Prof. Emeritus of Pathology.* (**1R,** 1907; **4,** 1913)

Loebel, Robert O., M.D. 205 East 78th St., New York City. (**1R,** 1928)

Loefer, John B., Ph.D. Southwest Foundation for Research and Education, P. O. Box 2296, San Antonio 6, Tex. *Sr. Research Biologist.* (**1,** 1949)

Loew, Earl R., Ph.D. Boston Univ. School of Medicine, 80 E. Concord St., Boston 18, Mass. *Prof. of Physiology.* (**1,** 1940; **3,** 1946)

Loewe, Leo, M.D. 500 St. Mark's Ave., Brooklyn

16, N. Y. *Clin. Asst. Prof. of Medicine.* (**3,** 1951)

Loewe, W. S., M.D. Univ. of Utah School of Medicine, Dept. of Pharmacology, Salt Lake City 1. (**3,** 1936)

Loewi, Otto, M.D. 155 E. 93rd St., New York City 28. *Research Prof. of Pharmacology, New York Univ. College of Medicine.* (**3H,** 1941)

Logan, Milan A., Ph.D. Univ. of Cincinnati College of Medicine, Eden and Bethesda, Cincinnati 19, Ohio. *Prof. of Biological Chemistry.* (**2,** 1936)

Long, C. N. H., D.Sc., M.D. Yale Univ. Dept. of Physiology, 333 Cedar St., New Haven 11, Conn. *Dean, School of Medicine.* (**1,** 1935; **2,** 1927)

Long, Esmond R., M.D. 7th and Lombard Sts., Philadelphia, Pa. *Dir., Henry Phipps Inst.; Prof. of Pathology, Univ. of Pennsylvania.* (**4,** 1930)

Long, Perrin Hamilton, M.D. State Univ. of New York Med. Center at New York, 451 Clarkson Ave., Brooklyn 3, N. Y. *Prof. of Medicine.* (**3,** 1940)

Longcope, Warfield T., M.D. Cornhill Farm, Lee, Mass. (**3R,** 1921; **4,** 1913; **6R,** 1923)

Longenecker, Herbert Eugene, Ph.D. Univ. of Pittsburgh, Pittsburgh 13, Pa. *Dean of Grad. School, and Res. in Natural Sci.* (**2,** 1940; **5,** 1945)

Longwell, Bernard B., Ph.D. Univ. of Colorado School of Medicine, 4200 East 9th Ave., Denver 7. *Prof. of Biochemistry.* (**2,** 1946)

Loofbourrow, G. N., Ph.D. Univ. of Kansas, Dept. of Physiology, Lawrence. *Asst. Prof.* (**1,** 1950)

Loomis, Ted A. Ph.D., M.D. Univ. of Washington School of Medicine, Seattle. *Assoc. Prof. of Pharmacology.* (**3,** 1948)

Loomis, William F., M.D. Calhoun Drive, Greenwich, Conn. *Dir., Loomis Lab.* (**2,** 1952)

Looney, Joseph M., M.D. 17 Court St., Boston, Mass. *Chief of Labs., V. A. Regional Office; Research Prof. of Biochemistry, Boston Univ. School of Medicine.* (**2,** 1922)

Loosli, Clayton Garr, M.D., Ph.D. Univ. of Chicago, Chicago, Ill. *Prof. of Preventive Medicine.* (**4,** 1940)

Loosli, J. K., Ph.D. Cornell Univ., Animal Nutrition Lab., Ithaca, N. Y. *Assoc. Prof. of Animal Nutrition and Assoc. Animal Nutritionist in Exper. Station.* (**5,** 1944)

Lorber, Stanley H., M.D. Temple Univ. School of Medicine, 3400 N. Broad St., Philadelphia 40, Pa. *Instr. in Medicine; Research Assoc., Samuel Fels Research Inst.* (**1,** 1951)

Lorber, Victor, M.D., Ph.D. Western Reserve Univ. School of Medicine, Dept. of Biochemistry, Cleveland, Ohio. *Assoc. Prof.* (**1,** 1944)

Lorente de Nó, Rafael, M.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Member.* (**1,** 1937)

Lorenz, Egon, Ph.D. Natl. Cancer Inst., Bethesda, Md. *Biophysicist.* (**4,** 1942)

Loring, H. S., Ph.D. Stanford Univ., Dept. of Chemistry, Stanford Univ., Calif. *Prof. of Biochemistry.* (**2,** 1938)

Lotspeich, William D., M.D. Univ. of Cincinnati College of Medicine, Dept. of Physiology, Eden and Bethesda Aves., Cincinnati 19, Ohio (**1,** 1948)

Louis, Lawrence H., D.Sc. Univ. Hospital, Dept. of Internal Medicine, Ann Arbor, Mich. *Asst. Prof. of Biological Chemistry, Univ. of Michigan.* (**2,** 1949)

Loveless, Mary H., M.D. New York Hospital, 525 E. 68th St., New York City. *Assoc. Prof. of Clin. Medicine, Cornell Univ. Med. School; Physician to Out-Patients, New York Hospital.* (**6,** 1941)

Lowell, Francis C., M.D. 65 East Newton St., Boston, Mass. *Assoc. Prof. of Medicine, Boston Univ. School of Medicine.* (**6,** 1942)

Lowenbach, Hans, M.D. Duke Univ. Med. School, Dept. of Psychiatry and Physiology, Durham, N. C. *Assoc. Prof.* (**1,** 1946)

Lowry, Oliver H., M.D., Ph.D. Washington Univ. School of Medicine, 4580 Scott Ave., St. Louis 10, Mo. *Prof. and Head of Dept. of Pharmacology.* (**2,** 1942; **3,** 1950)

Lu, Frank C., M.D. Dept. of Natl. Health and Welfare, Food and Drug Div., Ottawa, Ont., Canada. *Pharmacologist.* (**3,** 1951)

Lu, Go, M.D., Ph.D. Univ. of Maryland Med. School, Dept. of Pharmacology, Baltimore 1. *Fellow.* (**3,** 1949)

Lubinski, Herbert, M.D. Jewish General Hospital, 3755 St. Catherine Rd., Montreal, Quebec, Canada. *Bacteriologist and Serologist.* (**6,** 1941)

Lucas, Colin C., Ph.D. Univ. of Toronto, Banting and Best Dept. of Med. Research, Toronto, Ontario, Canada. *Professor.* (**2,** 1946)

Lucas, George H. W., Ph.D. Univ. of Toronto, Toronto, Ontario, Canada. *Prof. of Pharmacology.* (**2,** 1925; **3,** 1928)

Luck, James Murray, Ph.D. Stanford Univ., Stanford Univ., Calif. *Prof. of Biochemistry.* (**2,** 1925)

Lucké, Balduin, M.D., D.P.H. 623 Rose Lane, Bryn Mawr, Pa. *Prof. of Pathology, Univ. of Pennsylvania Med. School, Philadelphia.* (**4,** 1924)

Luckhardt, Arno Benedict, Ph.D., M.D. Univ. of Chicago, Chicago, Ill. *The Dr. Wm. Beaumont Distinguished Service Prof. of Physiology.* (**1,** 1911)

Ludewig, Stephan, Ph.D. Univ. of Virginia School of Medicine, Charlottesville. *Assoc. Prof. of Biochemistry.* (**2,** 1941)

Luduena, Froilan P., Ph.D., M.D. Sterling-Winthrop Research Inst., Rensselaer, N. Y. *Research Pharmacologist.* (**3,** 1941)

Luecke, Richard W., Ph.D. Michigan State Col-

lege, Dept. of Agricultural Chemistry, East Lansing. *Prof.* (*Research*). (**5,** 1950)

Luft, Ulrich C., M.D. USAF School of Aviation Medicine, Randolph A.F.B., Tex. *Research Physiologist.* (**1,** 1950)

Lukens, Francis D. W., M.D. Univ. of Pennsylvania, 809 Maloney Clinic, 36th and Spruce Sts., Philadelphia. *Assoc. Prof. of Medicine; Dir. of George S. Cox Med. Research Inst.* (**1,** 1938)

Lund, E. J., Ph.D. 1000 Barton Blvd., Austin, Tex. *Prof. of General Physiology, Univ. of Texas.* (**1,** 1930)

Lundberg, Walter O., Ph.D. Hormel Inst., Austin, Minn. *Director; Prof. of Agricultural Biochemistry, Univ. of Minnesota.* (**2,** 1949)

Lundgren, Harold P., Ph.D. U. S. Dept. of Agriculture, Western Regional Research Lab., Albany 6, Calif. *Sr. Chemist.* (**2,** 1942)

Lundy, John Silas, M.D. Mayo Foundation, Rochester, Minn. *Prof. of Anesthesiology; Chief of Section on Anesthesia, Mayo Clinic.* (**3,** 1935)

Lurie, Max B., M.D. Henry Phipps Inst., 7th and Lombard Sts., Philadelphia, Pa. *Assoc. Prof. of Exper. Pathology.* (**4,** 1934; **6,** 1930)

Lushbaugh, Clarence C., M.D., Ph.D. Los Alamos Scientific Lab., P. O. Box 1663, Los Alamos, N. Mex. *Staff Member; Pathologist, Los Alamos Hospital.* (**4,** 1950)

Lutz, Brenton R., Ph.D. Boston Univ., 675 Commonwealth Ave., Boston, Mass. *Prof. of Biology.* (**1,** 1925)

Luyet, Basile J., Sc.D. St. Louis Univ. School of Medicine, St. Louis, Mo. *Prof. of Biology.* (**1,** 1936)

Lyall, Harold W., Ph.D. New York State Dept. of Health, Div. of Labs. and Research, Albany. *Asst. Dir. in charge of Antitoxin, Serum, and Vaccine Labs.* (**6,** 1937)

Lyman, Carl M., Ph.D. A and M College of Texas, Texas Agricultural Exper. Station, College Station. *Prof. and Head of Dept. of Biochemistry and Nutrition.* (**2,** 1940; **5,** 1952)

Lyman, Charles Pierson, Ph.D. Harvard Univ., Museum of Comparative Zoology, Cambridge. Mass. *Assoc. Curator of Mammals; Research Assoc., Dept. of Anatomy, Harvard Med. School.* (**1,** 1951)

Lyman, John F., Ph.D. Route 2, Westerville, Ohio. *Emeritus Prof. of Agricultural Biochemistry, Ohio State Univ.* (**2R,** 1920; **5R,** 1933)

Maaske, Clarence A., Ph.D. Univ. of Colorado School of Medicine, 4200 E. 9th Ave., Denver. *Prof. of Physiology.* (**1,** 1945)

Macallum, A. Bruce, M.D., Ph.D. Univ. of Western Ontario Med. School, London, Ontario, Canada. *Research Prof. of Biochemistry.* (**2,** 1914)

MacCardle, Ross C., Ph.D. Natl. Cancer Inst., Bethesda, Md. *Principal Cytologist.* (**4,** 1948)

MacCorquodale, D. W., Ph.D. Abbott Labs., North Chicago, Ill. *Head of Biochemical Research.* (**2,** 1934)

MacFadyen, Douglas A., M.D. Presbyterian Hospital, 1753 W. Congress St., Chicago 12, Ill. *Chairman of Dept. of Biochemistry.* (**2,** 1942)

Macht, David Israel, M.D. Sinai Hospital, Baltimore, Md. *Consultant Pharmacologist; Research Pharmacologist, Sinai Hospital Labs.* (**1R,** 1916; **3,** 1915)

Macht, Martin B., Ph.D. The Jewish Hospital, Cincinnati 29, Ohio. (**1,** 1948)

MacIntosh, F. C., Ph.D. McGill Univ., Dept. of Physiology, Montreal, Quebec, Canada. *Professor and Chairman of Dept.* (**1,** 1950; **3,** 1950)

MacKay, Eaton M., M.D. E. R. Squibb and Sons, 745 Fifth Ave., New York City 22. (**1,** 1930)

MacKay, Ian F. S., Ph.D. Univ. College of the West Indies, Jamaica, British West Indies. *Prof. of Physiology.* (**1,** 1949)

Mackenzie, Cosmo G., Sc.D. Univ. of Colorado School of Medicine, Dept. of Biochemistry, 4200 E. 9th Ave., Denver 7. *Professor.* (**1,** 1946; **2,** 1946; **5,** 1942)

MacKenzie, Julia F., Sc.D. 1 Bellaire St., Denver, Colo. *Asst. Prof. of Pediatric Research, Univ. of Colorado, School of Medicine.* (**2,** 1952)

MacLeod, Colin M., M.D. New York Univ. College of Medicine, 477 First Ave., New York City. *Prof. of Bacteriology.* (**6,** 1937)

MacLeod, Florence L., Ph.D. Univ. of Tennessee, Knoxville. *Prof. of Nutrition.* (**2,** 1927; **5,** 1933)

MacLeod, Grace, Ph.D. 106 Morningside Drive, New York City 27. *Prof. Emeritus of Nutrition, Teachers College, Columbia Univ.* (**2,** 1924; **5R,** 1933)

MacLeod, John, Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City. *Asst. Prof. of Anatomy.* (**1,** 1942)

MacPherson, Catherine F. C., Ph.D. 236 Brock Ave. N., Montreal West, Quebec, Canada. (**2,** 1947)

MacPhillamy, Betty B., Ph.D. 145 Greene Ave., Madison, N. J. *Bacteriologist.* (**6,** 1944)

MacVicar, Robert, Ph.D. Oklahoma A & M College, Stillwater. *Prof. and Head of Dept. of Agricultural Chemistry Research.* (**2,** 1949)

Madden, Sidney C., M.D. Univ. of California School of Medicine, Dept. of Pathology, Los Angeles 24. *Prof. and Chairman of Dept.* (**4,** 1939)

Maddock, Stephen, M.D. Boston City Hospital, Boston, Mass. *Dir. of Surgical Research Lab.; Asst. Prof. of Surgery, Tufts Med. School.* (**4,** 1931)

Maddock, William O., M.D., Ph.D. Wayne Univ. College of Medicine, Dept. of Medicine, 1512 St. Antoine, Detroit 26, Mich. *Instr.* (**1,** 1951)

Madsen, Louis L., Ph.D. Utah State Agricultural College, Dept. of Animal Husbandry, Logan. *Nutritionist.* (**5,** 1940)

Magasanik, Boris, Ph.D. Harvard Med. School, Dept. of Bacteriology, Boston 15, Mass. *Assoc.* (**2,** 1952)

Magath, Thomas B., Ph.D., M.D. Mayo Clinic, Rochester, Minn. *Head of Div. of Clin. Labs.; Prof. of Clin. Pathology and Parasitology, Univ. of Minnesota; Mayo Foundation.* (**1,** 1928)

Magill, Thomas P., M.D. State Univ. of New York at New York, College of Medicine, 335 Henry St., Brooklyn 2. *Prof. of Bacteriology.* (**6,** 1937)

Magladery, J. W., M.D., Ph.D., M.R.C.P. Johns Hopkins Hospital, Baltimore, Md. *Asst. Prof. of Neurology, Johns Hopkins University.* (**1,** 1950)

Magnuson, Harold J., M.D., M.P.H. Univ. of North Carolina, Chapel Hill. *Research Prof. of Exper. Medicine; Sr. Surgeon, USPHS.* (**4,** 1950)

Magoun, Horace W., Ph.D. Univ. of California Med. School, Los Angeles 24. (**1,** 1937)

Mahon, Eleanor Conway, Ph.D. Iron River, Mich. (**4,** 1940)

Main, Rolland J., Ph.D. Eaton Labs., Inc., Eaton Ave., Norwich, N. Y. *Med. Editor and Consultant in Physiology.* (**1,** 1936)

Maison, George L., M.S., M.D. Riker Labs., P. O. Box 3157, Terminal Annex, Los Angeles 54, Calif. *Dir., Research and Development.* (**1,** 1939; **3,** 1948)

Major, Randolph T., Ph.D. Merck and Co., Inc., Rahway, N. J. *Vice Pres. and Scientific Dir.* (**2,** 1942)

Malkiel, Saul, Northwestern Univ. Med. School, 303 E. Chicago Ave., Chicago 11, Ill. *Asst. Prof. of Medicine; Dir. of Allergy Research Lab.* (**6,** 1948)

Mallory, G. Kenneth, M.D. Mallory Inst. of Pathology, Boston City Hospital, Boston, Mass. *Professor.* (**4,** 1940)

Maloney, Arnold H., Ph.D., M.D. Howard Univ. School of Medicine, Washington, D. C. *Prof. and Head of Dept. of Pharmacology.* (**3,** 1932)

Maloney, James V., M.D. Navy Med. Field Research Labs., Camp Lejeune, N.C. *Lt. (j.g.) MC, USNR; active duty.* (**1,** 1951)

Maltaner, Frank, Ph.D. 425 E. 51st St., New York City 22. *Biochemist, Div. of Lab. and Research, New York State Dept. of Health.* (**6,** 1920)

Maluf, N. S. Rustum, Ph.D. Columbia Univ., Presbyterian Hospital, Squier Urological Clinic, New York City 32. *Resident in Urology.* (**1,** 1942)

Man, Evelyn B., Ph.D. Yale Univ. School of Medicine, 333 Cedar St., New Haven, Conn. *Asst. Prof. in Biochemistry Lab., Dept. of Medicine.* (**2,** 1936)

Mandl, Ines, Ph.D. 166 W. 72nd St., New York City 23. *Research Assoc., Columbia Univ., College of P. & S.* (**2,** 1952)

Manery, Jeanne Forest, Ph.D. Univ. of Toronto Med. School, Toronto, Ontario, Canada. *Asst. Prof. of Biochemistry.* (**1,** 1937)

Mangun, George H., Ph.D. Henry Ford Hospital, 15713 Heyden St., Detroit 23, Mich. *Sr. Assoc. in Clin. Chemistry.* (**2,** 1947)

Mann, Frank C., M.A., M.D. Mayo Clinic, Box 256, Rochester, Minn. *Prof. of Exper. Medicine, Mayo Foundation.* (**1,** 1916; **4R,** 1924)

Mann, Frank D., Ph.D., M.D. 102–110 2nd Ave., S.W., Rochester, Minn. *Consultant in Clinical Pathology, Mayo Clinic; Asst. Prof. of Clinical Pathology, Mayo Foundation.* (**1,** 1950; **4,** 1950)

Mann, George V., Sc.D., M.D. Harvard School of Public Health, 695 Huntington Ave., Boston 15, Mass. *Asst. Prof. of Nutrition; Asst. in Medicine, Peter Bent Brigham Hospital.* (**5,** 1951)

Manning, G. W., M.D., Ph.D. Victoria Hospital, London, Ontario, Canada. *Asst. Prof. of Clin. Investigation, Dept. of Medicine; Lecturer, Dept. of Physiology, Univ. of Western Ontario.* (**1,** 1944)

Manville, Ira Albert, M.D., Ph.D. 811 N. W. 19th Ave., Portland 9, Ore. (**1,** 1933)

Manwaring, Wilfred H., M.D. 364 Kingsley Ave., Palo Alto, Calif. *Prof. Emeritus of Bacteriology and Exper. Pathology, Stanford Univ.* (**4,** prior to 1920; **6,** 1917)

Marbarger, John P., Ph.D. Univ. of Illinois Physical Environment Unit, 1853 W. Polk St., Chicago 12. *Research Dir., Aeromed. and Physical Environment Lab.; Assoc. Prof. of Physiology.* (**1,** 1949)

Marcus, Stanley, Ph.D. Univ. of Utah, Dept. of Bacteriology, Salt Lake City. *Assoc. Prof.* (**6,** 1948)

Maren, Thomas H., A.B., M.D. American Cyanamid Co., 1937 W. Main St., Stamford, Conn. (**3,** 1950)

Marine, David, M.A., M.D. 18 Baltimore Ave., Rehoboth, Del. (**1R,** 1910; **4,** 1913)

Mark, Lester C., M.D. 1648 Vincent Court, Wantagh, L. I., N. Y. *Anesthesiologist.* (**3,** 1950)

Markee, Joseph E., Ph.D. Duke Univ. School of Medicine, Durham, N. C. *Prof. of Anatomy.* (**1,** 1945)

Markowitz, J., M.D., Ph.D. Univ. of Toronto School of Medicine, Toronto, Ontario, Canada. *Research Assoc. in Physiology.* (**1,** 1929)

Marmont, George H., Ph.D. 133 N. Mansfield Ave., Los Angeles 36, Calif. (**1,** 1941)

Marmorston, Jessie. Inst. for Med. Research, 4751 Fountain Ave., Los Angeles, Calif. *Asst. Prof. of Medicine, Univ. of Southern California Staff, County and Cedars of Lebanon Hospitals.* (**6,** 1932)

Marrazzi, Amedeo S., M.D. Med. Labs., Army Chemical Center, Md. *Chief, Toxicology Branch.* (**1,** 1949; **3,** 1938)

Marsh, David F., Ph.D. Transandino Co., Palo Alto, Calif. *Vice-Pres.* (**3,** 1946)

Marsh, Gordon, Ph.D. State Univ. of Iowa, Iowa City. *Assoc. Prof. of Zoology.* (**1,** 1944)

Marsh, M. Elizabeth, Ph.D. Univ. of California Med. Center, School of Medicine, Dept. of Pathology, San Francisco 22. *Jr. Research Pathologist.* (**1,** 1929; **5,** 1933)

Marshak, Alfred George, Ph.D. Marine Biological Lab., Woods Hole, Mass. (**1,** 1940)

Marshall, Eli Kennerly, Jr., Ph.D., M.D. Johns Hopkins Med. School, Baltimore, Md. *Prof. of Pharmacology and Exper. Therapeutics.* (**1,** 1915; **2,** 1913; **3,** 1915)

Marshall, Lawrence M., Ph.D. Howard Univ., School of Medicine, Dept. of Biochemistry, Washington, D. C. *Asst. Prof.* (**2,** 1952)

Marshall, Louise Hanson, Ph.D. Natl. Insts. of Health, Inst. of Arthritis and Metabolic Disease, Bethesda, Md. *Physiologist.* (**1,** 1946)

Marshall, Wade H., Ph.D. Natl. Insts. of Health, Bethesda, Md. *Neurophysiologist, Natl. Inst. of Mental Health.* (**1,** 1937)

Martin, Arthur W., Jr., Ph.D. Univ. of Washington, Johnson Hall, Seattle. *Executive Officer, Dept. of Zoology.* (**1,** 1944)

Martin, Donald S., M.D. Communicable Disease Center, Bacteriology Section, P. O. Box 185, Chamblee, Ga. (**6,** 1943)

Martin, Foster N., Jr., Ph.D., M.D. Tulane Univ. Med. School, P.O. Station 20, New Orleans, La. *Asst. Prof. of Pharmacology.* (**3,** 1947)

Martin, Gustav J., Sc.D. National Drug Co., Research Labs., Haines & MacCollum Sts., Philadelphia, Pa. *Research Dir.* (**2,** 1951)

Martin, Stephens J., Ph.D. St. Francis Hospital, Hartford, Conn. (**1,** 1933)

Marx, Walter, Ph.D. Univ. of Southern California School of Medicine, Los Angeles 7. *Assoc. Prof. of Biochemistry.* (**2,** 1949)

Mason, Edward C., M.D., Ph.D. Univ. of Oklahoma School of Medicine, Oklahoma City. *Prof. of Physiology.* (**1,** 1935)

Mason, Eleanor Dewey, Ph.D. Women's Christian College, Dept. of Physiology and Nutrition, Madras, 6, India. *Prof.* (**1,** 1946)

Mason, Harold L., Ph.D. Mayo Clinic, Rochester, Minn. *Prof. of Physiological Chemistry, Mayo Foundation, Univ. of Minnesota.* (**2,** 1941)

Mason, Herman C., 131 N. Harvey Ave., Oak Park, Ill. *Consulting Bacteriologist and Immunologist.* (**6,** 1948)

Mason, Howard S., Ph.D. Princeton Univ., Dept. of Biology, Princeton, N. J. (**2,** 1949)

Mason, Karl Ernest, Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Prof. of Anatomy.* (**5,** 1941)

Mason, Morton F., Ph.D. Parkland Hospital, Oak Lawn at Maple, Dallas 4, Tex. *Prof. of Pathological Chemistry, Dept. of Medicine, Southwestern Med. College of the Univ. of Texas.* (**2,** 1938)

Mason, Richard P., M.D. 406th Med. General Lab., APO 500, c/o Postmaster, San Francisco, Calif. *Dir. of Research.* (**6,** 1950)

Massengale, Oliver N., Ph.D. Mead Johnson and Co., Research Lab., Evansville, Ind. *Research Biochemist.* (**2,** 1937)

Masson, Georges M. C., Ph.D. Cleveland Clinic Foundation, Research Div., Cleveland, Ohio. (**1,** 1944)

Mathews, Albert P., Ph.D. Marine Biological Lab., Woods Hole, Mass. *Carnegie Prof. Emeritus of Biochemistry, Univ. of Cincinnati.* (**1R,** 1898; **2,** 1906)

Mathies, James C., Ph.D. Henry Ford Hospital, Detroit 2, Mich. *Assoc., Edsel B. Ford Inst. for Med. Research.* (**2,** 1952)

Matheison, Don R., M.D. Univ. of Minnesota, Rochester. *Asst. Prof. and Consultant in Clin. Pathology.* (**6,** 1952)

Matson, Gustave A., Ph.D. Minneapolis Memorial Blood Bank, Inc., 1914 La Salle Ave., Minneapolis, Minn. *Director.* (**6,** 1946)

Matthews, Samuel A., Ph.D. Williams College, Williamstown, Mass. *Prof. of Biology.* (**1,** 1948)

Mattill, Henry A., Ph.D. State Univ. of Iowa, Iowa City. *Prof. of Biochemistry.* (**1,** 1913; **2,** 1909; **5R,** 1933)

Mattis, Paul A., D.Sc. Smith, Kline & French Labs., Philadelphia 1, Pa. *Head of Pharmacology Section.* (**3,** 1946)

Maurer, Frank W., Ph.D. 301 Lake Ave., Newton Highlands 61, Mass. (**1,** 1941)

Maurer, Fred D., D.V.M., Ph.D. 114 W. 14th St., Frederick, Md. (**6,** 1950)

Mautz, Frederick R., M.D. 10515 Carnegie Ave., Cleveland 6, Ohio. (**1,** 1945)

Maver, Mary E., Ph.D. Natl. Cancer Inst., Bethesda 14, Md. *Sr. Biochemist.* (**2,** 1947)

Mavor, James Watt, Ph.D. 8 Gracewood Park, Cambridge, Mass. (**1R,** 1930)

Maxfield, Mary E., Ph.D. Woman's Med. College of Pennsylvania, Dept. of Pharmacology, Philadelphia. *Assoc. Prof.* (**1,** 1947)

May, Charles D., M.D. State Univ. of Iowa, College of Medicine, Dept. of Pediatrics, Iowa City. *Prof. and Head of Dept.* (**5,** 1952)

Mayer, Dennis T., Ph.D. Univ. of Missouri, Dept. of Agricultural Chemistry, 211 Schweitzer Hall, Columbia. *Assoc. Prof.* (**2,** 1950)

Mayer, Jean, Sc.D., Ph.D. Harvard School of Public Health, Dept. of Nutrition, 695 Huntington Ave., Boston 15, Mass. *Asst. Prof.* (**5,** 1951)

Mayer, Manfred M., Ph.D. Johns Hopkins Univ., School of Hygiene, 615 N. Wolfe St., Baltimore 5, Md. *Assoc. Prof. of Bacteriology.* (**6,** 1946)

Mayerson, Hymen S., Ph.D. Tulane Univ. School of Medicine, Station 20, New Orleans, La. *Prof. and Head of Dept. of Physiology.* (**1,** 1928)

Maynard, Elliott Allen, Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester 20, N. Y. *Asst. Prof. of Pharmacology and Toxicology.* (**3,** 1950)

Maynard, L. A., Ph.D. Cornell Univ., Ithaca, N. Y. *Prof. of Nutrition and Biochemistry; Dir. of School of Nutrition.* (**2,** 1930; **5,** 1933)

Maynert, Everett W., Ph.D. Johns Hopkins Univ. School of Medicine, 710 N. Washington St., Baltimore 5, Md. (**3,** 1952)

Mazur, Abraham, Ph.D. City College of New York, 139th St. and Convent Ave., New York City 31. *Asst. Prof. in Dept. of Chemistry.* (**2,** 1944)

McCann, William S., M.D. Univ. of Rochester School of Medicine, Rochester, N. Y. *The Charles A. Dewey Prof. of Medicine.* (**2,** 1923; **5,** 1933)

McCarrell, Jane D. Hood College, Dept. of Biology, Frederick, Md. (**1,** 1942)

McCarty, Maclyn, M.D. 66th St. and York Ave., New York City 21. *Assoc., Rockefeller Inst. for Med. Research.* (**6,** 1947)

McCawley, Elton Leeman, Ph.D. Univ. of Oregon, School of Medicine, Portland. *Assoc. Prof. in Pharmacology.* (**3,** 1944)

McCay, Clive M., Ph.D. Cornell Univ., Animal Nutrition Lab., Dairy Bldg., Ithaca, N. Y. *Prof. of Nutrition.* (**2,** 1929; **5,** 1933)

McChesney, Evan William, Ph.D. Sterling-Winthrop Research Inst., Rensselaer, N. Y. *Member, Biological Div.* (**1,** 1944)

McClellan, Walter S., M.D. Saratoga Spa, Saratoga Springs, N. Y. *Med. Dir.; Assoc. Prof. of Medicine, Albany Med. College.* (**1,** 1931)

McClendon, J. F., Ph.D. Route 1, Box 383, Trooper Rd., Norristown, Pa. *Research Prof. of Physiology, Hahnemann Med. College.* (**1R,** 1910; **2,** 1914; **5R,** 1935)

McClung, L. S. Indiana Univ., Bloomington. *Prof. and Chairman of Dept. of Bacteriology.* (**6,** 1948)

McCollum, Elmer Verner, Ph.D. Johns Hopkins Univ., Baltimore 18, Md. *Prof. Emeritus of Biochemistry.* (**2,** 1910; **5,** 1933)

McCollum, Ernestine Becker, M.A. Johns Hopkins Univ. School of Hygiene, Baltimore 5, Md. *Asst. Prof. of Biochemistry.* (**5,** 1938)

McConnell, Kenneth P., Ph.D. U. S. Veterans Administration Hospital, Louisville, Ky. *Asst. Dir., Radioisotope Unit.* (**2,** 1952)

McCouch, Grayson Prevost, M.D. Univ. of Pennsylvania School of Medicine, Philadelphia. *Assoc. Prof. of Physiology.* (**1,** 1925)

McCouch, Margaret Sumwalt, Ph.D. Rose Tree Rd., R.F.D. 1, Media, Pa. (**1,** 1934)

McCoy, Richard H., Ph.D. Univ. of Pittsburgh, Pittsburgh, Pa. *Assoc. Research Prof. of Chemistry.* (**2,** 1950; **5,** 1948)

McCrea, Forrest D., Ph.D. Duke Univ. School of Medicine, Durham, N. C. *Assoc. Prof. of Physiology and Pharmacology.* (**1,** 1929; **3,** 1937)

McCrudden, Francis H., M.D. 19 Stoneleigh Rd., West Newton 65, Mass., *Asst. Med. Dir., New England Mutual Life Insurance Co.* (**2R,** 1906)

McCulloch, Warren Sturgis, M.A., M.D. Massachusetts Inst. of Technology, Research Lab. of Electronics, Cambridge 39. (**1,** 1936)

McCutcheon, F. Harold, Ph.D. Univ. of Pennsylvania, School of Veterinary Medicine, Philadelphia 4. *Prof. of Physiology; Head of Dept. of Physiology and Pharmacology.* (**1,** 1951)

McCutcheon, Morton, M.D. Univ. of Pennsylvania Med. School, Philadelphia. *Prof. of Pathology.* (**4,** 1925)

McDonald, Francis Guy, Ph.D. Mead Johnson and Co., Research Lab., 2404 W. Pennsylvania St., Evansville, Ind. *Biochemist.* (**2,** 1936; **5,** 1947)

McDonald, Roger K., M.D. USPHS Hospital, Wyman Park Drive, Baltimore 24, Md. *Sr. Asst. Surgeon, USPHS, Natl. Heart Inst., Bethesda, Md.* (**1,** 1949)

McEllroy, William Swindler, M.D. Univ. of Pittsburgh School of Medicine, Pittsburgh, Pa. *Dean; Prof. of Physiological Chemistry.* (**2,** 1919)

McElroy, L. W. Ph.D. Univ. of Alberta, Dept. of Animal Science, Edmonton, Canada. *Assoc. Prof. of Animal Husbandry.* (**5,** 1944)

McElroy, William D., Ph.D. Johns Hopkins Univ., McCollum-Pratt Inst., 34th and Charles Sts., Baltimore 18, Md. *Dir. and Prof. of Biology.* (**1,** 1945; **2,** 1951)

McFarland, Ross A., Ph.D. Harvard Univ. School of Public Health, Boston, Mass. *Assoc. Prof. of Industrial Hygiene.* (**1,** 1943)

McFarlane, William Douglas, Ph.D. Canadian Breweries, Ltd., Research Div., 307 Fleet St. E., Toronto, Ontario, Canada. *Dir. of Research.* (**2,** 1933)

McGilvery, Robert W., Ph.D. Univ. of Wisconsin, Dept. of Physiological Chemistry, Service Memorial Inst., Madison 6. *Assoc. Prof.* (**2,** 1951)

McGinnis, James, Ph.D. State College of Washington, Dept. of Poultry Science, Pullman. *Prof.* (**5,** 1952)

McGinty, Daniel A., Ph.D. Parke, Davis and Co., Detroit, Mich. *Research Physiologist.* (**1,** 1925)

McGuigan, Hugh Alister, Ph.D., M.D. 2418 Park Pl., Evanston, Ill. *Prof. Emeritus of Pharmacology, Univ. of Illinois College of Medicine.* (**1R,** 1907; **2,** 1906; **3R,** 1913)

McHargue, J. S., Ph.D. Univ. of Kentucky, Dept. of Chemistry, Kentucky Agricultural Exper. Station, Lexington. *Member Emeritus.* (**2R,** 1927)

McHenry, E. W., Ph.D. Univ. of Toronto, School of Hygiene, Toronto, Ontario, Canada. *Prof. of Public Health Nutrition.* (**2,** 1938; **5,** 1935)

McIntire, Floyd C., Ph.D. Abbot Labs., North Chicago, Ill. *Research Biochemist.* (**2,** 1952)

McIntyre, A. R., Ph.D., M.D. Univ. of Nebraska College of Medicine, 42nd and Dewey Ave., Omaha. *Prof. of Physiology and Pharmacology.* (**1,** 1933; **3,** 1938)

McKee, Albert P. State Univ. of Iowa, College of Medicine, *Assoc. Prof. of Bacteriology.* (**6,** 1948)

McKee, Clara M. Squibb Inst. for Med. Research, New Brunswick, N. J. *Assoc. in Microbiology.* (**6,** 1941)

McKee, Frank W., M.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Assoc. in Pathology; Dir. of Labs., Genesee Hospital.* (**4,** 1947)

McKee, Ralph Wendell, Ph.D. Harvard Med. School, 25 Shattuck St., Boston 15, Mass. *Asst. Prof. of Biological Chemistry.* (**2,** 1946)

McKennis, Herbert, Jr., Ph.D. Naval C. E. Research Lab., Port Hueneme, Calif. *Head, Basic Sciences Research Dept.* (**2,** 1948)

McKibbin, John M., Ph.D. State Univ. of New York Med. Center at Syracuse Univ., Syracuse, N. Y. *Assoc. Prof. of Biochemistry.* (**2,** 1948)

McLain, Paul L., M.D. Univ. of Pittsburgh Med. School, Pittsburgh, Pa. *Prof. of Physiology and Pharmacology.* (**1,** 1948; **3,** 1940)

McLean, Franklin C., Ph.D., M.D. Univ. of Chicago, Chicago 37, Ill. *Prof. of Pathological Physiology.* (**1,** 1914; **2,** 1916; **3,** 1916)

McLean, I. William, Jr., M.D. Parke, Davis Lab., Virus Research Div., Detroit, Mich. *Research Virologist.* (**6,** 1946)

McLester, James S., M.D. Univ. of Alabama, 930 S. 20th St., Birmingham. *Prof. of Medicine.* (**5,** 1933)

McLimans, William F., Ph.D. 2224 Tipperary Rd., Kalamazoo, Mich. (**6,** 1949)

McManus, J. F. A., M.D. Univ. of Virginia, School of Medicine, Charlottesville. *Assoc. Prof. of Pathology.* (**4,** 1948)

McMaster, Philip D., M.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Member.* (**4,** 1924; **6,** 1951)

McMeekin, Thomas L., Ph.D. U. S. Dept. of Agriculture, Eastern Regional Research Lab., Philadelphia, Pa. *Head of Protein Div.* (**2,** 1935)

McNamara, Bernard P., Ph.D. Med. Labs., Army Chemical Center, Md. *Asst. Chief, Pharmacology Section.* (**3,** 1947)

McNaught, James Bernard, M.D. Univ. of Colorado School of Medicine, Denver 7. *Prof. and Head of Dept. of Pathology.* (**4,** 1936)

McNeil, Crichton, M.D. Holy Cross Hospital, Salt Lake City, Utah. *Pathologist.* (**6,** 1950)

McPhail, Murchie K., Ph.D. Natl. Defense Board, Suffield Exper. Station, Ralston, Alberta, Canada. *Research Scientist.* (**3,** 1941)

McQuarrie, Irvine, Ph.D., M.D. Univ. of Minnesota, Minneapolis. *Prof. and Head of Dept. of Pediatrics.* (**1,** 1949; **4,** 1927; **5,** 1933)

McShan, W. H., Ph.D. Univ. of Wisconsin, Zoology Dept., Madison 6. *Prof. of Zoochemistry.* (**2,** 1947)

Mead, James F., Ph.D. 16835 Livorno Drive, Pacific Palisades, Calif. *Chief, Biochemistry Div., UCLA Med. School; Assoc. Research Biochemist, Atomic Energy Project.* (**2,** 1952)

Mead, Jeremiah, M.D. Harvard School of Public Health, Physiology Dept., 55 Shattuck St., Boston 15, Mass. *Assoc.* (**1,** 1952)

Medes, Grace, Ph.D. Lankenau Hospital Research Inst., Philadelphia, Pa. *Sr. Member, Metabolic Chemistry.* (**2,** 1930)

Medlar, Edgar M., M.D. Biggs Memorial Hospital, Ithaca, N. Y. *Pathologist.* (**4,** 1927)

Meek, Walter J., Ph.D. Univ. of Wisconsin, Madison. *Prof. of Physiology; Assoc. Dean of Med. School.* (**1,** 1908)

Mehl, John W., Ph.D. Univ. of Southern California, 3551 Univ. Ave., Los Angeles. *Prof. of Biochemistry.* (**2,** 1946)

Mehler, Alan H., Ph.D. Natl. Insts. of Health, Bethesda 14, Md. *Chemist.* (**2,** 1952)

Meier, Rolf, M.D. Basle Univ., Pelikanweg 7, Basle, Switzerland. *Prof. of Pathological Physiology; Dir., Biological Research Labs., Ciba A. G.* (**3,** 1949)

Meiklejohn, Gordon, M.D. Univ. of Colorado Med. Center, 4200 E. 9th Ave., Denver 7. *Prof. of Medicine.* (**6,** 1948)

Meister, Alton, M.D. Natl. Cancer Inst., Bethesda 14, Md. *Sr. Surgeon, Biochemistry Dept.* (**2,** 1950)

Meites, Joseph. Michigan State College, Dept. of Physiology and Pharmacology, East Lansing. *Assoc. Prof.* (**1,** 1949; **5,** 1952)

Melampy, Robert M., Ph.D. Iowa State College, 305 Science Bldg., Ames. *Prof. of Physiology.* (**1,** 1952)

Melcher, Leo R., M.D. Univ. of California Med. School, San Francisco 22. *Asst. Prof. of Oncology* (**6,** 1952)

Mellon, Ralph R., M.S., M.D., D.P.H. Western Pennsylvania Hospital, Inst. of Pathology, Pittsburgh. *Director.* (**6,** 1918)

Mellors, Robert C., Ph.D., M.D. 47 Oakwood Ave., Rye, N.Y. *Assoc., Sloan-Kettering Inst., Memorial Center, New York City.* (**2,** 1951)

Melnick, Daniel, Ph.D. The Best Foods, Inc., Re-

search Labs., Bayonne, N. J. *Chief Technologist.* (**2,** 1940; **5,** 1942)

Melnick, Joseph L., Ph.D. Yale Univ. School of Medicine, 333 Cedar St., New Haven 11, Conn. *Assoc. Prof. of Microbiology.* (**2,** 1946; **6,** 1948)

Melville, Donald B., Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City 21. *Assoc. Prof. of Biochemistry.* (**2,** 1947)

Melville, Kenneth Ivan, M.D. McGill Univ., Montreal, Quebec, Canada. *Assoc. Prof. of Pharmacology.* (**3,** 1931)

Mendel, Bruno, M.D. Univ. of Amsterdam, Pharmacotherapeutic Lab., Polderweg 20, Amsterdam, Holland. *Prof. of Pharmacology.* (**2,** 1947)

Mendelson, E. S., B.A. R.F.D. 2, Telford, Pa. *Physiologist; Head of Human Engineering Div., Naval Air Exper. Station, Philadelphia, Pa.* (**1,** 1949)

Mendenhall, Walter L., M.S., M.D. 1435 24th St., Des Moines, Iowa. *Retired Prof. of Pharmacology, Boston Univ. Med. School.* (**1R,** 1915; **3R,** 1917)

Mendez, Rafael, M.D. Natl. Inst. of Cardiology, Calzada de la Piedad 300, Mexico D.F., Mexico. *Head of Dept. of Pharmacology.* (**3,** 1944)

Mendlowitz, Milton, M.D. 136 E. 64th St., New York City 21. *Adjunct Physician in Mt. Sinai Hospital of New York.* (**1,** 1949)

Meneely, George R., M.D. Thayer Veterans Admin. Hospital, Nashville, Tenn. *Asst. Chief of Med. Services and Dir. of Lab.; Asst. Prof. of Medicine, Vanderbilt Univ.* (**1,** 1951; **4,** 1946)

Meng, H. C., M.D., Ph.D. Vanderbilt Univ. Med. School, Dept. of Physiology, Nashville 4. *Asst. Prof.* (**1,** 1950)

Menkin, Valy, M.A., M.D. Temple Univ. School of Medicine, Philadelphia, Pa. *Assoc. Prof. of Exper. Pathology.* (**1,** 1932; **4,** 1932; **6,** 1931)

Menten, Maud L., M.D., Ph.D. 218 Queen's Ave., New Westminster, B. C., Canada. *Retired Prof. of Pathology, Univ. of Pittsburgh.* (**1R,** 1915; **4,** 1927)

Mertz, Edwin T., Ph.D. Purdue Univ., Dept. of Agricultural Chemistry, W. Lafayette, Ind. *Assoc. Prof.* (**2,** 1950)

Mettier, Stacy R., M.D. Univ. of California Hospital, San Francisco. *Prof. of Medicine.* (**4,** 1932)

Mettler, Fred A., Ph.D., M.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Neurology, New York City. *Assoc. Prof. of Anatomy.* (**1,** 1937)

Meyer, Arthur E., Ph.D. Fellows Pharmaceutical Lab., New York City. (**1,** 1948)

Meyer, Curtis E., Ph.D. Upjohn Co., Kalamazoo, Mich. *Sr. Scientist, Nutrition.* (**2,** 1942)

Meyer, Dallas K., Ph.D. 401 Crestland Rd., Columbia, Mo. *Assoc. Prof. of Physiology, Univ. of Missouri School of Medicine.* (**1,** 1951)

Meyer, Frieda L., Ph.D. U. S. Dept. of Agriculture, Bureau of Human Nutrition, Food and Nutrition Div., Washington 25, D. C. *Nutrition Specialist.* (**5,** 1949)

Meyer, Karl, M.D., Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. Prof. of Biochemistry, Dept. of Medicine.* (**2,** 1934)

Meyer, Karl F., M.D., Ph.D. George W. Hooper Foundation, Univ. of California Med. Center, San Francisco. *Director.* (**4,** 1930; **6,** 1922)

Meyer, Roland K., Ph.D. Univ. of Wisconsin, Biology Bldg., Madison 6. *Prof. of Zoology.* (**1,** 1949)

Mezey, Kaàlman, M.D. Calle 84, No. 9–68, Bogota, Colombia, South America. *Prof. of Pharmacology, Javeriana Univ. Med. School.* (**3,** 1950)

Michel, Harry O., Ph.D. Med. Labs., Biochemical Section, Army Chemical Center, Md. *Biochemist.* (**2,** 1949)

Mickelsen, Olaf, Ph.D. Natl. Insts. of Health, Inst. of Arthritis and Metabolic Diseases, Bethesda 14, Md. *Asst. Chief, Lab. of Biochemistry and Nutrition.* (**2,** 1944)

Mider, George Burroughs, M.D. Natl. Insts. of Health, Natl. Cancer Inst., Bethesda 14, Md. (**4,** 1940)

Miles, Walter R., Ph.D. Yale Univ., 333 Cedar St., New Haven, Conn. *Prof. of Psychology, School of Medicine and Inst. of Human Relations.* (**1,** 1919)

Milhorat, Ade T., M.D. Cornell Univ. Med. College, New York City 21. *Asst. Prof. of Medicine and Instr. in Pharmacology; Research Fellow, Russell Sage Inst. of Pathology.* (**1,** 1934; **3,** 1937; **5,** 1935)

Militzer, Walter E., Ph.D. Univ. of Nebraska, Lincoln. *Dean, College of Arts & Sci.* (**2,** 1951)

Miller, Augustus Taylor, Jr., Ph.D. Univ. of North Carolina Med. School, Chapel Hill. *Assoc. Prof. of Physiology.* (**1,** 1944)

Miller, Benjamin F., M.D. 217 A Kent St., Brookline, Mass. *Assoc. Physician, Massachusetts General Hospital; Clin. Prof. of Medicine (on leave), George Washington Med. School.* (**2,** 1938)

Miller, Carey D., M.S. Univ. of Hawaii, Honolulu. *Prof. of Food and Nutrition, Hawaii Agricultural Exper. Station.* (**5,** 1942)

Miller, C. Phillip, M.S., M.D. Univ. of Chicago, Chicago, Ill. *Prof. of Medicine; Member, Inst. of Radiobiology and Biophysics.* (**4,** 1925; **6,** 1928)

Miller, Edgar G., Jr., Ph.D. Columbia Univ., 630 W. 168th St., New York City. *Prof. of Biological Chemistry.* (**2,** 1930)

Miller, Elizabeth C., Ph.D. Univ. of Wisconsin, McArdle Memorial Lab. for Cancer Research, Madison 6. *Asst. Prof. of Oncology.* (**2,** 1951)

Miller, Franklin R., M.D. Jefferson Med. College and Hospital, Div. of Hematology, Philadelphia, Pa. *Assoc. Prof. of Medicine.* (**4,** 1940)

Miller, Frederick R., M.A., M.D. 280 Carlton St., Toronto 2, Canada. (**1,** 1908)

Miller, Gail L., Ph.D. QM Corps, Pioneering Research Labs., 2800 S. 20th St., Philadelphia 45, Pa. *Head, Biochemistry Lab.* (**2,** 1949)

Miller, George A., Ph.D. Harvard Univ., Psycho-Acoustic Lab., Cambridge, Mass. *Research Fellow.* (**1,** 1948)

Miller, George H., M.D. American College of Surgeons, 40 E. Erie St., Chicago 11, Ill. *Dir. of Educational Activities.* (**3,** 1925)

Miller, H. R., M.D. Montefiore Hospital, 1020 Park Ave., New York City. (**1,** 1947)

Miller, James A., Ph.D. Univ. of Wisconsin Med. School, McArdle Mem. Lab. for Cancer Research, Madison 6. *Prof. of Oncology.* (**2,** 1949)

Miller, Leon L., Ph.D., M.D. Univ. of Rochester School of Medicine and Dentistry, 260 Crittenden Blvd., Rochester 20, N. Y. *Assoc. Prof. of Radiation Biology and Biochemistry.* (**2,** 1947)

Miller, Lila, Ph.D. Univ. of Michigan, Ann Arbor. *Asst. Prof. of Biological Chemistry.* (**2,** 1946)

Miller, Lloyd C., Ph.D. U. S. Pharmacopeia, 46 Park Ave., New York City 16. *Dir. of Pharmacopeial Revision.* (**3,** 1938)

Miller, R. C., Ph.D. Pennsylvania State College, State College. *Prof. of Agricultural and Biological Chemistry.* (**5,** 1935)

Miller, Zelma Baker, Ph.D. Children's Cancer Research Foundation, Children's Med. Center, Boston, Mass. *Biochemist.* (**2,** 1940)

Millican, R. Carl, M.D., Ph.D. Natl. Insts. of Health, Bethesda 14, Md. *Surgeon, USPHS.* (**3,** 1951)

Millman, Nathan, M.Sc., Ph.D. 50 Brookside Ave., Apt. 6A, Somerville, N. J. *Research Assoc., Div. of Physiology and Pharmacology, Ortho Research Foundation, Raritan, N. J.* (**1,** 1950)

Mills, Clarence A., Ph.D., M.D. Cincinnati General Hospital, Cincinnati 29, Ohio. *Prof. of Exper. Medicine, Univ. of Cincinnati.* (**1,** 1921; **2,** 1921)

Minard, David, Ph.D., M.D. Natl. Naval Med. Center, Naval Med. Research Inst., Bethesda, Md. *Head, Physiology Div.* (**1,** 1950)

Minot, Annie Stone, Ph.D. Vanderbilt Univ. Med. School, Nashville, Tenn. *Assoc. Prof. of Biochemistry.* (**1,** 1923)

Minz, Bruno, M.D. Laboratoire de Physiologie Generale de la Sorbonne, Paris 5e, France. *Research Prof.* (**3,** 1952)

Mirick, George S., M.D. Johns Hopkins Univ., School of Medicine, Baltimore, Md. *Assoc. Prof. of Medicine.* (**6,** 1950)

Mirsky, Alfred E., Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Member.* (**2,** 1941)

Mirsky, I. Arthur, M.D. Univ. of Pittsburgh School of Medicine, Dept. of Clinical Science, O'Hara St., Pittsburgh 13, Pa. *Prof. and Chairman of Dept.* (**1,** 1936)

Mitchell, Harold H., M.D. 9730 Wilshire Blvd. Beverly Hills, Calif. (**6,** 1943)

Mitchell, Harold H., Ph.D. Univ. of Illinois, 555 Davenport Hall, Urbana. *Prof. of Animal Nutrition.* (**2,** 1919; **5,** 1933)

Mitchell, Helen S., Ph.D. Univ. of Massachusetts, Amherst. *Dean of School of Home Economics.* (**2,** 1925; **5,** 1933)

Mitchell, Philip H., Ph.D. 1414 Grove Terrace, Winter Park, Fla. (**2,** 1909)

Modell, Walter, M.D. Cornell Univ. Med. College, 1300 York Ave., New York City, *Asst. Prof. in Clin. Pharmacology.* (**3,** 1944)

Moe, Gordon Kenneth, Ph.D., M.D. State Univ. of New York at Syracuse, School of Medicine, Dept. of Physiology, Syracuse. *Prof. and Head of Dept.* (**1,** 1952; **3,** 1944)

Mohn, James F., M.D. 24 High St., Buffalo, N. Y. *Asst. Prof. in Bacteriology and Immunology, Univ. of Buffalo School of Medicine.* (**6,** 1946)

Molitor, Hans, M.D. Merck Inst. for Therapeutic Research, Rahway, N. J. *Director.* (**1,** 1933; **3,** 1942)

Molland, Jacob, M.D., Ph.D. Univ. of Oslo, Oslo, Norway. *Prof. of Pharmacology.* (**3,** 1948)

Molnar, George W., Ph.D. Army Med. Research Lab., Fort Knox, Ky. *Physiologist.* (**1,** 1949)

Molomut, Norman, Ph.D. Biological Labs., 16 Clinton St., Brooklyn 2, N. Y. *Dir. of Research and of Labs.* (**6,** 1942)

Mommaerts, Wilfred F. H. M., Ph.D. Duke Univ. Hospital, Box 3505, Durham, N.C. *Established Investigator, American Heart Association; Lecturer in Biochemistry, Duke Univ. School of Medicine.* (**2,** 1951)

Montgomery, Hugh, M.D. Univ. of Pennsylvania Hospital, 36th and Spruce Sts., Philadelphia. *Asst. Prof. of Clin. Medicine.* (**1,** 1950)

Moon, Henry D., M.A., M.D. Univ. of California Med. School, Div. of Pathology, San Francisco 22. *Asst. Clin. Prof. of Pathology; City Pathologist.* (**4,** 1950)

Moon, Virgil H., M.Sc., M.D. Univ. of Miami, Med. Research Unit., Coral Gables 34, Fla. *Prof. of Pathology.* (**4,** 1934)

Moore, Arthur R., Ph.D. Univ. of Portland, Dept. of Biology, Portland, Ore. (**1,** 1912)

Moore, Carl Vernon, M.D. Washington Univ. School of Medicine, St. Louis, Mo. *Prof. of Medicine.* (**4,** 1938; **5,** 1941)

Moore, Dan H., Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. (**1,** 1948)

Moore, Lane A., Ph.D. U. S. Dept. of Agriculture, Div. of Nutrition and Physiology, Bureau of Dairy Industry, Beltsville, Md. *Head, Section of Dairy Cattle Nutrition.* (**5,** 1940)

Moore, Robert A., M.D. Washington Univ. Med. School, St. Louis, Mo. *Dean and Prof. of Pathology.* (**4,** 1929)

Moore, Robert M., M.D. Univ. of Texas Med. School, Galveston. (**1,** 1932)

Moore, Stanford, Ph.D. Rockefeller Inst. for Med. Research, York Ave. at 66th St., New York City 21. *Member.* (**2,** 1949)

Moorhouse, Victor Henry K., M.B. Univ. of Manitoba, Winnipeg, Manitoba, Canada. *Prof. of Physiology.* (**1,** 1912)

Morales, Manuel F., Ph.D. Naval Med. Research Inst., Bethesda 14, Md. *Staff Member, General Physiology.* (**1,** 1950)

More, Robert H., M.Sc., M.D. Queen's Univ., Dept. of Pathology, Kingston, Ont., Canada. *Prof. and Head of Dept.* (**4,** 1949)

Morehouse, Laurence E., Ph.D. Univ. of Southern California, Los Angeles 7. *Assoc. Prof.* (**1,** 1947)

Morehouse, Margaret G., Ph.D. Univ. of Southern California, School of Medicine, Los Angeles 7. *Asst. Prof. of Biochemistry.* (**2,** 1952)

Morgan, Agnes Fay, Ph.D. Univ. of California, Berkeley 4. *Prof. of Home Economics; Biochemist, Agricultural Exper. Station.* (**2,** 1929; **5,** 1933)

Morgan, Charles F., Ph.D. Georgetown Univ. School of Medicine, Washington, D. C. *Prof. and Chairman of Dept. of Physiology.* (**1,** 1948; **3,** 1947)

Morgan, Clifford T., Ph.D. Johns Hopkins Univ., Psychology Dept., Baltimore 18, Md. (**1,** 1943)

Morgulis, Sergius, Ph.D. Univ. of Nebraska College of Medicine, Omaha 5. *Prof and Chairman of Dept. of Biochemistry.* (**1,** 1914; **2,** 1916)

Morison, Robert S., M.D. Rockefeller Foundation, 66th St. and York Ave., New York City 21. *Assoc. Dir. of Medicine and Public Health.* (**1,** 1938)

Moritz, Alan R., M.D. Western Reserve Univ., Cleveland, Ohio. *Prof. of Pathology and Dir. of the Institute.* (**4,** 1934)

Morrell, Clarence Allison, Ph.D. Dept. of Natl. Health and Welfare, 35 John St., Ottawa, Ontario, Canada. *Dir., Food and Drug Divisions.* (**3,** 1937)

Morris, Harold P., Ph.D. Natl. Cancer Inst., Bethesda 14, Md. *Principal Biochemist in Nutrition.* (**2,** 1944; **5,** 1943)

Morris, J. Anthony, M.Sc., Ph.D. Army Med. Service Grad. School, Dept. of Virus and Rickettsial Diseases, Army Med. Center, Washington 12, D. C. (**6,** 1951)

Morris, Lucien E., M.D. State Univ. of Iowa Hospitals, Div. of Anesthesia, Iowa City. *Assoc. Prof.* (**3,** 1952)

Morris, Marion C., Ph.D. 446 E. 66th St., New York City 21. (**6,** 1936)

Morrison, Dempsie B., Ph.D. Univ. of Tennessee College of Medicine, Memphis. *Dir. of Clin. Chemistry.* (**2,** 1936)

Morrison, James L., Ph.D. Emory Univ. School of Medicine, Emory University, Ga. *Assoc. Prof. of Pharmacology.* (**3,** 1944)

Morrison, Peter R., Ph.D. Univ. of Wisconsin, Madison 6. *Assoc. Prof. of Zoology and Physiology.* (**1,** 1952; **2,** 1950)

Morse, Minerva, Ph.D. 5525 Kimbark Ave., Chicago, Ill. *Research Assoc., Dept. of Pediatrics, Univ. of Chicago.* (**2,** 1934)

Mortimer, Bernard, Ph.D., M.D. 25 N. Ottawa St., Joliet, Ill. *Cook County Hospital, Chicago.* (**1,** 1936)

Morton, John J., M.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Prof. of Surgery.* (**4,** 1927)

Moses, Campbell, M.D., Univ. of Pittsburgh School of Medicine, Pittsburgh, Pa. *Dir. of Addison H. Gibson Lab. of Applied Physiology.* (**1,** 1948)

Moss, W. Glen, Ph.D. Univ. of Illinois College of Medicine, Dept. of Physiology, 1853 W. Polk St., Chicago 12. *Asst. Prof.* (**1,** 1951)

Motley, Hurley L., Ph.D., M.D. Univ. of Southern California, Los Angeles. *Prof. of Medicine and Dir. Cardiorespiratory Lab.* (**1,** 1947)

Moulder, James W., Ph.D. Univ. of Chicago, Depts. of Bacteriology, Parasitology and Biochemistry, 5724 Ellis Ave., Chicago 37, Ill. *Asst. Prof. of Biochemistry.* (**2,** 1950)

Moulton, C. Robert, Ph.D. 5602 Dorchester Ave., Chicago, Ill. (**5,** 1933)

Mountain, Isabel M. Ph.D. 9 Coolidge Ave., White Plains, N. Y. (**6,** 1947)

Mountcastle, Vernon B., M.D. Johns Hopkins Univ. Med. School, Dept. of Physiology, 710 N. Washington St., Baltimore 5, Md. *Asst. Prof. of Physiology.* (**1,** 1949)

Moxon, Alvin L., Ph.D. College Station, Brookings, S.D. *Head, Chemistry Dept., South Dakota Agricultural Exper. Station.* (**2,** 1944)

Moyer, Arden W., Ph.D. 138 Fremont Ave., Park Ridge, N. J. *Research Biochemist, Lederle Labs., Pearl River, N. Y.* (**6,** 1946)

Moyer, Carl A., Ph.D. Washington Univ., School of Medicine, Dept. of Surgery, St. Louis 10, Mo. (**1,** 1943)

Moyer, John Henry, III, M.D. Baylor Univ. College of Medicine, 1200 M.D. Anderson Blvd., Texas Med. Center, Houston 5. *Asst. Prof. of Medicine and Pharmacology.* (**3,** 1951)

Mudd, Stuart, M.D. Univ. of Pennsylvania, Philadelphia. *Prof. of Microbiology.* (**1,** 1921; **4,** 1927; **6,** 1927)

Mudge, Gilbert H., M.D., D.M.S., Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. in Medicine.* (**1,** 1951)

Muehlberger, Clarence W., Ph.D. State Health Dept. Labs., Lansing, Mich. *State Toxicologist.* (**3,** 1928)

Mueller, Gerald C., M.D., Ph.D. Univ. of Wisconsin, McArdle Lab., Madison. *Asst. Prof. of Oncology.* (**2,** 1952)

Mueller, J. Howard, Ph.D. Harvard Med. School, 25 Shattuck St., Boston, Mass. *Prof. of Bacteriology and Immunology.* (**2,** 1922; **4,** 1927; **6,** 1920)

Muirhead, E. E., Southwestern Med. College, Dept. of Pathology, Dallas, Texas. *Prof. and Chairman of Dept.; Dir. of Labs., Parkland Hospital.* (**4,** 1952)

Mukherji, B., D.Sc. Central Drug Research Inst., Lucknow, India. *Director.* (**3,** 1938)

Mulder, Arthur G., Ph.D. Stritch School of Medicine of Loyola Univ., 706 S. Wolcott St., Chicago, Ill. *Prof. and Chairman of Dept. of Physiology.* (**1,** 1937)

Mulford, Dwight J., Ph.D. Kansas Univ. Med. School, Dept. of Biochemistry, Lawrence. *Assoc. Prof.* (**2,** 1948)

Mulinos, M. G., M.D., Ph.D. New York Med. College, Flower and Fifth Ave. Hospitals, Fifth Ave. and 105th St., New York City 29. *Assoc. Prof. of Pharmacology and Physiology.* (**3,** 1931)

Mull, James W., Ph.D. 1870 Grove Ave., Quincy, Ill. *Assoc., Quincy Specialties Co.* (**2,** 1937)

Müller, Otto H., R.N. Dr. State Univ. of New York, Med. Center at Syracuse, Dept. of Physiology, Syracuse 10. (**1,** 1947)

Muller, Robert H., M.D. 36 Glen Ridge Pkwy., Montclair, N. J. *Captain, Med. Corps.* (**6,** 1950)

Mulligan, Richard M., M.D. Univ. of Colorado School of Medicine, 4200 East 9th Ave., Denver. *Prof. of Pathology.* (**4,** 1947)

Mullin, F. J., Ph.D. Chicago Med. School, 710 S. Wolcott Ave., Chicago 12, Ill. *Dean and Prof. of Physiology.* (**1,** 1937)

Mullins, L. J., Ph.D. Purdue Univ., Biophysical Lab., Lafayette, Ind. *Assoc. Prof. of Biophysics.* (**1,** 1952)

Munoz, Joaquin, Ph.D. Sharp and Dohme, Inc., Dept. of Bacteriology, Glenolden, Pa. (**6,** 1951)

Munro, Muriel Platt, Ph.D. Jefferson Med. College, 1025 Walnut St., Philadelphia 7, Pa. *Research Chemist, Div. of Hematology.* (**2,** 1948)

Munsell, Hazel E., Ph.D. 8 N. Main St., Monson, Mass. (**5,** 1933)

Munson, Paul L., Ph.D. Harvard School of Dental Medicine, 188 Longwood Ave., Boston 15, Mass. *Asst. Prof. of Dental Science.* (**2,** 1950)

Muntwyler, Edward, Ph.D. State Univ. Med. Center at New York, 350 Henry St., Brooklyn 2, N. Y. *Prof. of Biochemistry.* (**2,** 1931)

Muntz, John A., Ph.D. 3356 Euclid Heights Blvd., Cleveland Heights, Ohio. *Assoc. Prof. of Biochemistry, Western Reserve Univ.* (**2,** 1948)

Murlin, John R., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Prof. Emeritus of Physiology and Dir. Emeritus of Dept. of Vital Economics.* (**1R,** 1906; **2R,** 1908; **5,** 1933)

Murphy, Quillian R., M.D., Ph.D. Univ. of Wisconsin Med. School, Dept. of Physiology, Madison 6. *Asst. Prof.* (**1,** 1949)

Murray, Everitt G. D., M.A. McGill Univ., Montreal, Quebec, Canada. *Prof. and Head of Dept. of Bacteriology and Immunology; Bacteriologist-in-Chief to the Royal Victoria Children's Memorial and Alexandra Hospitals.* (**6,** 1933)

Murray, F. Joseph, Ph.D. The Wm. S. Merrill Co., Lockland Station, Cincinnati, Ohio. *Head, Dept. of Microbiology.* (**6,** 1950)

Musacchia, X. J., Ph.D., St. Louis Univ. Biological Labs., 1402 S. Grand Blvd., St. Louis 4, Mo. *Asst. Prof.* (**1,** 1952)

Mushett, Charles W., Ph.D. Merck Inst. for Therapeutic Research, Rahway, N. J. *Head of Dept. of Pathology.* (**4,** 1948)

Muus, Jytte, Mag. Scient. Mount Holyoke College, South Hadley, Mass. *Prof. of Physiology.* (**2,** 1946)

Myers, Chester N., Ph.D. 34 Cedar Place, Yonkers 5, N. Y. *Chief, Div. Chemotherapy, New York Skin and Cancer Hospital; Dir. of Chemical and Clin. Research, H. A. Metz Labs., Inc.* (**2R,** 1922)

Myers, J. D., M.D. Duke Univ. School of Medicine, Dept. of Medicine, Durham, N. C. *Asst. Prof.* (**1,** 1951)

Myers, William G., Ph.D. M.D. 2724 Wexford Rd., Columbus 12, Ohio. *Julius Stone Research Assoc.; Prof. of Medical Biophysics, Ohio State Univ.* (**1,** 1952)

Nachmansohn, David, M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. Prof.* (**1,** 1940; **2,** 1951)

Nadler, J. Ernest, M.D., Med.D.Sc. 80-16 Lefferts Blvd., Kew Gardens 15, N. Y. (**3,** 1940)

Nahum, Louis N., M.D. 1142 Chapel St., New Haven, Conn. *Asst. Prof. of Physiology, Yale Univ.* (**1,** 1934)

Najjar, Victor A., M.D. Johns Hopkins Hospital, Baltimore 5, Md. *Assoc. Prof. of Pediatrics.* (**2,** 1946)

Nash, Thomas P., Jr., Ph.D. 875 Monroe Ave., Memphis, Tenn. *Prof. of Chemistry, Univ. of Tennessee College of Medicine; Dean of School of Biological Sciences.* (**2,** 1923)

Nasset, Edmund S., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Prof. of Physiology.* (**1,** 1932; **5,** 1940)

Nastuk, William L., Ph.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Physiology, 630 W. 168th St., New York City 32. *Instr. in Physiology.* (**1,** 1949)

Natelson, Samuel, Ph.D. Rockford Memorial Hos-

pital, 507 Chestnut St., Rockford, Ill. *Chairman, Dept. of Biochemistry.* (**2,** 1950)

Nathanson, Ira T., M.S., M.D. Massachusetts General Hospital, Boston. *Asst. in Surgery; Instr. in Surgery, Harvard Med. School.* (**1,** 1943)

Necheles, Heinrich, M.D., Ph.D. Michael Reese Hospital, Chicago, Ill. *Dir. of Dept. of Gastrointestinal Physiology; Professorial Lecturer in Physiology, Univ. of Chicago.* (**1,** 1929)

Neff, William D., Ph.D. Univ. of Chicago, Dept. of Psychology, Faculty Exchange, Chicago 37, Ill. *Assoc. Prof.* (**1,** 1950)

Neill, James M., Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City. *Prof. of Bacteriology and Immunology.* (**6,** 1930)

Neilson, Charles Hugh, Ph.D., M.D. Humboldt Bldg., St. Louis, Mo. *Assoc. Dean and Prof. of Medicine, St. Louis Univ. Med. School.* (**2,** 1906)

Nelson, Arthur A., M.D., Ph.D. 1714 Corwin Dr., Silver Spring, Md. *Med. Officer (Pathology), FSA, Food & Drug Admin., Div. of Pharmacology.* (**4,** 1942)

Nelson, Carl T., M.A., M.D. Harkness Pav., Presbyterian Hosp., 180 Ft. Washington Ave., New York City 32. *Dermatologist.* (**6,** 1943)

Nelson, Erwin E., Ph.D., M.D. St. Louis Univ., School of Medicine, 1402 S. Grand Blvd., St. Louis, Mo. *Prof. and Dir. of Pharmacology.* (**3,** 1924)

Nelson, E. M., Ph.D. Food and Drug Admin., FSA, Washington 25, D. C. *Chief, Div. of Nutrition.* (**2,** 1927; **5,** 1933)

Nelson, John B., Ph.D. Rockefeller Inst. for Med. Research, New York City. *Assoc. Member.* (**4,** 1934)

Nelson, John M., Ph.D. Columbia Univ., New York City 27. *Prof. Emeritus of Organic Chemistry.* (**2,** 1923)

Nelson, Marjorie M., Ph.D. Univ. of California, Inst. of Exper. Biology, Berkeley. *Research Assoc.* (**5,** 1950)

Nelson, Norton, Ph.D. New York Univ. College of Medicine, 477 First Ave., New York City 16. *Assoc. Prof. of Industrial Medicine.* (**2,** 1946)

Nelson, P. Mabel, Ph.D. Iowa State College, Ames. *Dean, Div. of Home Economics.* (**5,** 1934)

Nelson, Tell, M.A., M.D. 1415 Kalakaua Ave., Honolulu 14, T.H. *Practicing Physician.* (**6,** 1938)

Nelson, Victor E., M.S. 423 Niagara St., Eau Claire, Wis. (**2,** 1924)

Nelson, Walter L., Ph.D. Cornell Univ. School of Nutrition, Ithaca, N.Y. *Assoc. Prof. of Biochemistry.* (**5,** 1951)

Nelson, Warren O., Ph.D. Univ. of Iowa School of Medicine, Iowa City. *Prof. of Anatomy.* (**1,** 1937)

Neter, Erwin, M.D. Children's Hospital, 219 Bryant St., Buffalo, N. Y. *Attending Bacteriologist.* (**6,** 1937)

Nettleship, Anderson, M.D. Univ. of Arkansas School of Medicine, Little Rock. *Prof. and Head of Dept. of Pathology.* (**4,** 1942)

Neuberg, Carl, Ph.D., M.D. Fifth Ave. and 106th St., New York City 25. *Research Prof. of Biochemistry, New York Med. College.* (**2,** 1944)

Neuman, William F., Ph.D., Univ. of Rochester School of Medicine and Dentistry, Rochester 20. N. Y. *Assoc. Prof. of Pharmacology.* (**2,** 1949; **3,** 1952)

Neumann, Charles, M.D. 525 E. 68th St., New York City 21. *Resident Surgeon, New York Hospital; Instr. in Surgery, New York Univ. Post-Grad. Med. School.* (**1,** 1944)

Neurath, Hans, Ph.D. Univ. of Washington School of Medicine, Dept. of Biochemistry, Seattle 5. *Prof. and Exec. Officer of Dept.* (**2,** 1940; **6,** 1944)

Neuwelt, Frank, M.D. 504 Broadway, Gary, Ind. *Research Assoc., Dept. of Gastrointestinal Research, Michael Reese Hospital.* (**1,** 1940)

Neuwirth, Isaac, Ph.D. 209 E. 23rd St., New York City 10. *Prof. of Pharmacology, New York Univ. College of Dentistry.* (**2,** 1924; **3,** 1931)

Newman, Elliot V., M.D., Vanderbilt Univ. Hospital, Nashville, Tenn. (**1,** 1948)

Newman, Henry W., M.D. Stanford Med. School, Clay and Webster Sts., San Francisco 15, Calif. *Assoc. Prof. of Medicine.* (**3,** 1949)

Nice, Leonard B., Ph.D. Chicago Med. School, 710 S. Wolcott Ave., Chicago, Ill. *Prof. of Physiology and Pharmacology.* (**1,** 1921)

Nicholas, John S., Ph.D. Yale Univ., Osborn Zoological Lab., New Haven, Conn. *Bronson Prof. of Comparative Anatomy.* (**1,** 1927)

Nichols, John, Ph.D. 620 Randolph St., Charleston, West Va. (**1,** 1951)

Nicholson, Hayden C., M.S., M.D. Univ. of Arkansas, School of Medicine, Little Rock. *Dean.* (**1,** 1932)

Nickerson, John L., Ph.D. Columbia Univ., 630 W. 168th St., New York City 32. *Prof. of Physiology.* (**1,** 1945)

Nickerson, Mark, Ph.D., M.D. Univ. of Michigan, School of Medicine, Dept. of Pharmacology, Ann Arbor. *Assoc. Prof.* (**1,** 1951; **3,** 1947)

Nicoll, Paul A., Ph.D. Indiana Univ., Bloomington. *Asst. Prof. of Physiology.* (**1,** 1945)

Niemann, Carl G., Ph.D. California Inst. of Technology, Pasadena 4. *Prof. of Organic Chemistry.* (**2,** 1940)

Nims, Leslie F., Ph.D. Brookhaven Natl. Lab., Biology Dept., Upton, Long Island, N. Y. *Acting Head of Dept.* (**1,** 1940)

Noble, Robert Laing, M.D., Ph.D. Univ. of Western Ontario, Dept. of Med. Research, London, Ontario, Canada. (**1,** 1941)

Noell, Werner K., M.D. U.S.A.F. School of Avia-

tion Medicine, Randolph Field, Tex. *Research Physiologist.* (**1,** 1950)

Nord, F. F., Ph.D. Fordham Univ., New York City. *Prof. of Organic Chemistry and Enzymology.* (**2,** 1940)

Norris, L. C., Ph.D. Cornell Univ., Rice Hall, Ithaca, N. Y. *Prof. of Nutrition.* (**2,** 1939; **5,** 1934)

Northrop, J. H., Ph.D., Sc.D. Univ. of California, Berkeley 4. *Visiting Prof. of Bacteriology; Member of Rockefeller Inst.* (**2,** 1938)

Northup, David W., Ph.D. West Virginia Univ. Med. School, Morgantown. *Prof. of Physiology.* (**1,** 1936)

Novelli, G. David, Ph.D. Massachusetts General Hospital, Biochemical Research Lab., Boston 14. *Assoc. in Biochemical Research, Harvard Univ.* (**2,** 1951)

Novikoff, Alex B., Ph.D. Univ. of Vermont, College of Medicine, Burlington. *Prof. of Exper. Pathology; Assoc. Prof. of Biochemistry.* (**2,** 1952)

Novy, F. G., M.D., Sc.D. 721 Forest Ave., Ann Arbor, Mich. *Dean Emeritus of Med. School and Prof. Emeritus of Bacteriology, Univ. of Michigan.* (**1R,** 1901; **2R,** 1906; **4R,** prior to 1919; **4H, 6H**)

Nowinski, W. W., Ph.D. Univ. of Texas School of Medicine, Galveston. *Research Assoc.* (**1,** 1948)

Nungester, Walter James, Ph.D., M.D. Univ. of Michigan, Dept. of Bacteriology, Ann Arbor. *Professor.* (**6,** 1949)

Nyboer, Jan, Sc.D., M.D. Plainfield, N.H. *Asst. Prof. of Physiological Sciences, Dartmouth Med. School.* (**1,** 1951)

Nyc, Joseph Frank, Ph.D. 14357 Miranda St., Van Nuys, Calif. *Asst. Prof. of Physiological Chemistry, Univ. of California School of Medicine, Los Angeles.* (**2,** 1952)

Oberst, Fred W., Ph.D. Med. Labs., Army Chemical Center, Md. *Chief, Gassing Branch.* (**2,** 1936; **3,** 1949)

Ochoa, Severo, M.D. New York Univ. College of Medicine, 477 First Ave., New York City 16. *Prof. of Pharmacology.* (**2,** 1942)

O'Dell, Boyd L., Ph.D. Univ. of Missouri, 105 Schweitzer Hall, Columbia. *Assoc. Prof.* (**2,** 1952)

Ogden, Eric. Ohio State Univ. College of Medicine, Columbus 10. *Prof. of Physiology.* (**1,** 1941)

O'Hare, James P., M.D. 520 Commonwealth Ave., Boston, Mass. *Physician, Peter Bent Brigham Hospital; Lecturer in Medicine, Harvard Med. School.* (**4,** 1927)

Ohlson, Margaret A., Ph.D. Michigan State College, Dept. of Foods and Nutrition, East Lansing. *Prof. and Head of Dept. of Foods and Nutrition.* (**5,** 1945)

Okey, Ruth, Ph.D. Univ. of California, 1583 Life Sciences Bldg., Berkeley 4. *Prof. of Home Economics; Biochemist, Agric. Exper. Stn.* (**2,** 1922; **5,** 1933)

Olcott, Harold S., Ph.D. U. S. Dept. of Agriculture, Western Regional Research Lab., Albany 6, Calif. *Head of Vegetable Processing Div.* (**2,** 1935)

Oldham, Helen, Ph.D. U. S. Dept. of Agriculture Research Center, Room 301 North Bldg., Beltsville, Md. *Nutrition Specialist.* (**5,** 1946)

Oleson, J. J., Ph.D. American Cyanamid Co., Lederle Labs. Div., Pearl River, N. Y. *Head, Dept. of Nutrition and Exper. Biology.* (**2,** 1950)

Olitsky, Peter K., M.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Member.* (**6,** 1917)

Oliver, Jean Redman, M.D. Hoagland Lab., 335 Henry St., Brooklyn, N. Y. *Prof. of Pathology, N. Y. State Med. Center at New York City, College of Medicine.* (**1,** 1924; **4,** 1924)

Oliver, Wade W., M.D. Rockefeller Foundation, New York City. *Assoc. Dir. of Div. of Med. Sciences.* (**4,** 1925)

Olmsted, J. M. D., Ph.D. Univ. of California, Berkeley. *Prof. of Physiology.* (**1,** 1920)

Olsen, Norman S., Ph.D. Thayer Veterans Admin. Hospital, Research Lab., Nashville 5, Tenn. *Appointment in Dept. of Biochemistry, Vanderbilt Univ.* (**1,** 1948; **2,** 1949)

Olson, Byron J., Ph.D., M.D. National Insts. of Health, Bethesda, Md. *Surgeon, Div. of Infectious Diseases.* (**6,** 1948)

Olson, Carl, Jr., D.V.M., Ph.D. Univ. of Nebraska, Lincoln. *Chairman of Dept. of Animal Pathology and Hygiene.* (**4,** 1937)

Olson, Robert E., Ph.D., M.D. Univ. of Pittsburgh, Grad. School of Public Health, Dept. of Biochemistry and Nutrition, Pittsburgh 13, Pa. *Prof. and Head of Dept.* (**2,** 1951; **5,** 1952)

Olson, William H., M.D. Michael Reese Hospital, Dept. of Gastrointestinal Research, 29th and Ellis Ave., Chicago, Ill. *Asst. Dir.* (**1,** 1951)

Opdyke, David F., Ph.D. Merck Inst. for Therapeutic Research, Dept. of Physiology, Rahway, N. J. *Head of Dept.* (**1,** 1945)

Opie, Eugene L., M.D., Sc.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. (**1R,** 1906; **4,** 1913; **6R,** 1923)

Oppenheimer, Enid Tribe. 124 E. 61st. St., New York City. *Instr. in Physiology, Columbia Univ.* (**1,** 1932)

Oppenheimer, Ernst, M.D. Ciba Pharmaceutical Products, Inc., Lafayette Park, Summit, N. J. *Vice-Pres. in charge of Med. Research.* (**3,** 1944)

Oppenheimer, Morton Joseph, Ed.M., M.D. 3400 N. Broad St., Philadelphia, Pa. *Prof. of Physiology, Temple Univ. School of Medicine.* (**1,** 1942)

Opsahl, Jeanette Clara, Ph.D. Yale Univ., School

of Medicine, Dept. of Physiological Chemistry, New Haven, Conn. *Instr. (Research).* (**2,** 1952)

Orbeli, L. A. Academy of Sciences of the USSR, Moscow, USSR. (**1H,** 1946)

Orcutt, James A., Ph.D. Eaton Labs., Inc., Norwich, N. Y. *Chief, Div. of Pharmacology.* (**3,** 1952)

Orten, Aline Underhill, Ph.D. Wayne Univ. College of Medicine, Detroit 26, Mich. *Research Assoc., Dept. of Physiological Chemistry.* (**5,** 1946)

Orten, James M., Ph.D. Wayne Univ. College of Medicine, Detroit 26, Mich. *Assoc. Prof. of Physiological Chemistry.* (**2,** 1936; **5,** 1937)

Orth, O. Sidney, Ph.D., M.D. Univ. of Wisconsin, Dept. of Anesthesiology, University Hospitals, 1300 University Ave., Madison 6. (**1,** 1942; **3,** 1944)

Oser, Bernard L., Ph.D. Food Research Labs., Inc., 48–14 33rd St., Long Island City 1, N. Y. *Director.* (**5,** 1945)

Osler, Abraham G., Ph.D. Johns Hopkins Univ., Dept. of Bacteriology, 615 N. Wolfe St., Baltimore, Md. *Asst. Prof.* (**6,** 1949)

Oster, Robert H., Ph.D. Univ. of Maryland School of Dentistry, Baltimore. *Prof. of Physiology.* (**1,** 1938)

Osterberg, Arnold E., Ph.D. Abbott Labs., Med. Dept., N. Chicago, Ill. *Assoc. in Med. Dept.* (**2,** 1933)

Osterhout, Marian I. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Assoc., Div. of General Physiology.* (**1,** 1927)

Osterhout, W. J. V., Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Member Emeritus.* (**1,** 1910)

Otis, Arthur B., Ph.D. Johns Hopkins Hospital, Baltimore 5, Md. *Assoc. Prof. of Physiology and Surgery.* (**1,** 1946)

Ott, Walther H., Ph.D. Merck Inst. for Therapeutic Research, Rahway, N. J. *Head of Dept. of Biological Control and Poultry Nutrition.* (**5,** 1949)

Overman, Richard R., Ph.D. Univ. of Tennessee College of Medicine, Division of Physiology, Memphis. *Assoc. Prof.; Dir., Clin. Physiology, Inst. of Clin. Investigation.* (**1,** 1946)

Owen, Charles A., Jr., M.D., Ph.D. Mayo Clinic, Univ. of Minnesota, Rochester. *Consultant in Clinical Pathology; Instr. in Pathology.* (**4,** 1951)

Owen, Seward E., Ph.D. 418 S. 20th Ave., Maywood, Ill. (**1,** 1938)

Pace, Donald M., Ph.D. Univ. of Nebraska College of Pharmacy, Dept. of Physiology and Pharmacology, Lincoln. *Assoc. Prof. of Physiology.* (**1,** 1944)

Pace, Nello, Ph.D. Univ. of California, Berkeley 4. *Assoc. Prof. of Physiology.* (**1,** 1947)

Pack, George T., M.D. 139 E. 36th St., New York City 16. *Fellow in Cancer Research, Memorial Hospital.* (**1,** 1924)

Packchanian, Ardzroony, Ph.D. Univ. of Texas School of Medicine, Galveston. *Prof. of Bacteriology and Parasitology; Dir. of Lab. of Microbiology.* (**6,** 1943)

Page, Edouard, Ph.D. Laval Univ. Med. School, Dept. of Biochemistry, Quebec, Canada. (**1,** 1947).

Page, Ernest W., M.D. Univ. of California Hospital, Dept. of Obstetrics and Gynecology, San Francisco 22. *Asst. Prof.* (**1,** 1947)

Page, Irvine H., M.D. Cleveland Clinic Foundation, 2040 E. 93rd St., Cleveland 6, Ohio. *Dir. of Research.* (**1,** 1937; **2,** 1932)

Page, Robert G., M.D. Univ. of Rangoon Med. College, Rangoon, Burma. *On leave from Univ. of Pennsylvania Med. School, Dept. of Pharmacology. Prof. of Pharmacology.* (**3,** 1951)

Painter, Elizabeth E., Ph.D. 438 N. Longcommon Rd., Riverside, Ill. (**1,** 1941)

Palmer, John W., Ph.D. Hyland Labs., 4534 Sunset Blvd., Los Angeles 27, Calif. (**6,** 1949)

P'An, S. Y., M.D. Chas. Pfizer and Co., Inc., Dept. of Pharmacology, 11 Bartlett St., Brooklyn 6, N. Y. *In Charge, Dept. of Pharmacology.* (**3,** 1941)

Pangborn, Mary C., Ph.D. New York State Dept. of Health, Div. of Labs. and Research, New Scotland Ave., Albany, N. Y. *Sr. Biochemist.* (**2,** 1941)

Papageorge, Evangeline, Ph.D. Emory Univ. School of Medicine, Dept. of Biochemistry, Emory Univ., Georgia. *Assoc. Prof.* (**2,** 1950)

Pappenheimer, A. M., Jr., Ph.D. New York Univ. College of Medicine, 477 First Ave., New York City 16. *Prof. of Microbiology.* (**2,** 1941; **6,** 1938)

Pappenheimer, Alwin M., M.D. 45 Holden St, Cambridge, Mass. *Prof. Emeritus of Pathology, Columbia Univ.* (**4,** 1922)

Pappenheimer, John R., Ph.D. Harvard Med. School, Boston, Mass. *Assoc. in Physiology.* (**1,** 1946)

Papper, E. M., M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City. *Prof. of Anesthesiology.* (**3,** 1949)

Park, Edwards A., M.D. Johns Hopkins Hospital, Baltimore, Md. *Prof. Emeritus of Pediatrics, Johns Hopkins Univ.* (**4,** 1923)

Parker, George H., Sc.D. 16 Berkeley St., Cambridge, Mass. *Prof. Emeritus of Zoology, Harvard Univ.* (**1R,** 1909)

Parker, Robert F., M.D. Western Reserve Univ.,

2109 Adelbert Rd., Cleveland, Ohio. *Assoc. Prof. of Microbiology and Medicine.* (**4,** 1942; **6,** 1935)

Parkins, William M., Ph.D. Univ. of Pennsylvania School of Medicine, Harrison Dept. of Research Surgery, Philadelphia 4. *Asst. Prof. of Surgical Research.* (**1,** 1939)

Parmer, Leo G., Ph.D., M.D. U.S. Food and Drug Admin., 201 Varick St., New York City 14. *Med. Officer.* (**3,** 1951)

Parpart, Arthur K., Ph.D. Princeton Univ., Guyot Hall, Princeton, N. J. *Prof. of Physiology.* (**1,** 1937)

Parr, Leland W., Ph.D. George Washington Univ. School of Medicine, 1335 H St. N.W., Washington, D. C. *Prof. of Bacteriology.* (**4,** 1940)

Parrack, Horace O., Ph.D. Wright-Patterson Air Force Base, Aero-Med. Lab., Dayton, Ohio. *Research Physiologist.* (**1,** 1948)

Parrish, D. B., Ph.D. Kansas State College, Dept. of Chemistry, Manhattan. *Asst. Prof.* (**5,** 1951)

Parsons, Helen T., M.D., Ph.D. Univ. of Wisconsin, Madison. *Prof. of Home Economics.* (**2R,** 1929; **5R,** 1933)

Parsons, Robert J., M.D. Highland Alameda County Hospital, 2701 14th Ave., Oakland, Calif. *Pathologist; Dir. of Labs.* (**4,** 1939)

Paschkis, Karl E., M.D. Jefferson Med. College, 1025 Walnut St., Philadelphia 7, Pa. *Asst. Prof. of Medicine and Assoc. in Physiology; Chief of Endocrine Clinic, Jefferson Hospital.* (**1,** 1942)

Patt, Harvey M., Ph.D. Argonne Natl. Lab., Chicago, Ill. *Physiologist.* (**1,** 1948)

Patterson, John L., Jr., M.S. Emory Univ., Dept. of Physiology, Atlanta, Ga. *Asst. Prof.; Instr. in Medicine.* (**1,** 1951)

Patterson, Thos. L., Ph.D., Sc.D. Wayne Univ. College of Medicine, 1512 St. Antoine St., Detroit 26, Mich. *Research Prof. of Physiology; Prof. of Oro-Physiology and Dir. of Dental Research, Univ. of Detroit School of Dentistry.* (**1,** 1920)

Patterson, Wilbur I., Ph.D. Food and Drug Admin., Washington 25, D. C. *Chief, Organic Analytical Methods Branch, Div. of Food.* (**2,** 1948)

Patton, H. D., Ph.D., M.D. Univ. of Washington School of Medicine, Dept. of Physiology and Biophysics, Seattle 5. *Assoc. Prof.* (**1,** 1947)

Paul, John R., M.A., M.D. Yale Univ. Med. School, 333 Cedar St., New Haven, Conn. *Prof. of Preventive Medicine.* (**4,** 1927; **6,** 1937)

Pearce, John Musser, M.D. 525 E. 68th St., New York City 21. *Prof. of Pathology, Cornell Univ. Med. College; Attending Pathologist, New York Hospital.* (**4,** 1942)

Pearce, Louise, M.D. Trevenna Farm, Belle Mead, N. J. *Assoc. Member in Pathology and Bacteriology, Rockefeller Inst. for Med. Research.* (4, 1925)

Pearcy, Frank, Ph.D., M.D. 2606 Oak Lawn Ave., Dallas, Tex. (**1,** 1928)

Pearlman, William H., Ph.D. Jefferson Med. College, 1025 Walnut St., Philadelphia 7, Pa. *Assoc. Prof., Biochemistry Dept.* (**2,** 1946)

Pearse, Herman E., M.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Prof. of Surgery.* (**4,** 1932)

Pearson, Harold E., M.D., M.P.H. Univ. of Southern California Med. School, Los Angeles. *Assoc. Prof. of Bacteriology; Med. Microbiologist, Los Angeles County Hospital.* (**6,** 1948)

Pearson, P. B., Ph.D. U. S. Atomic Energy Commission, Div. of Biology and Medicine, Washington 25, D. C. *Chief of Biology Branch.* (**2,** 1944; **5,** 1940)

Pease, Marshall C., Jr., M.D. Branchville Rd., R.F.D. 4, Ridgefield, Conn. *Historian of American Acad. of Pediatrics.* (**6,** 1920)

Peck, Robert L., Ph.D. 939 Madison Ave., Plainfield, N. J. *Sr. Chemist, Merck and Co., Inc.* (**2,** 1947)

Pecora, Louis J., Ph.D. Natl. Insts. of Health, Bethesda 14, Md. *Physiologist.* (**1,** 1952)

Peiss, Clarence N., Ph.D. St. Louis Univ., School of Medicine, 1402 S. Grand Blvd., St. Louis 4, Mo. *Asst. Prof. of Physiology.* (**1,** 1952)

Pelikan, Edward W., M.S., M.D. Univ. of Illinois, College of Medicine, 1853 W. Polk St., Chicago 12. *Instr. in Pharmacology.* (**3,** 1952)

Penfield, Wilder G., M.D., D.Sc. McGill Univ., Montreal, Quebec, Canada. *Prof. of Neurology and Neurosurgery.* (**1,** 1932)

Penneys, Raymond, M.D. Univ. of Pennsylvania Hospital, Peripheral Vascular Sec., Philadelphia 4. *Instr. in Medicine, Univ. of Pennsylvania School of Medicine.* (**1,** 1951)

Pennington, Mary Engle, Ph.D. 233 Broadway, New York City 7. *Consultant in Connection with the Handling, Transportation and Storage of Perishables.* (**2,** 1908)

Penrod, Kenneth E., Ph.D. Duke Univ. School of Medicine, Durham, N. C. *Assoc. Prof. of Physiology.* (**1,** 1946)

Peoples, S. Anderson, M.D. Univ. of California, School of Veterinary Medicine, Dept. of Pharmacology, Davis. *Prof. of Comparative Pharmacology.* (**3,** 1937)

Perkins, John F., Jr., M.D. 5621 S. Kenwood Ave., Chicago 37, Ill. *Asst. Prof. of Physiology, Univ. of Chicago.* (**1,** 1950)

Perlman, Ely, M.D. 118 Crescent Lane, Roslyn Heights, L. I., N. Y. *Research Assoc. Mt. Sinai Hospital.* (**6,** 1944)

Perlmann, Gertrude Erika, Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City 21. *Assoc.* (**2,** 1951)

Permar, Howard H., M.D. Pathologic Labs., Mercy Hospital, Pittsburgh, Pa. *Dir. of Labs.* (**4,** 1925)

Petermann, Mary L., Ph.D. 444 E. 68th St., New York City 21. *Assoc. Prof. of Biochemistry, Sloan-Kettering Div., Cornell Univ. Med. College.* (**2,** 1947)

Peters, John P., M.D. 123 Marvel Rd., New Haven 15, Conn. *John Slade Ely Prof. of Medicine, Yale Univ. School of Medicine.* (**2,** 1922)

Peters, Lawrence, Ph.D. Western Reserve Univ. Med. School, Dept. of Pharmacology, 2109 Adelbert Rd., Cleveland 6, Ohio. *Asst. Prof. of Pharmacology.* (**3,** 1946)

Petersen, William E., Ph.D. Univ. of Minnesota Div. of Dairy Husbandry, St. Paul 1. *Professor.* (**1,** 1947)

Peterson, Lysle H., M.D. Univ. of Pennsylvania Med. School, Dept. of Physiology, Philadelphia 4. *Asst. Prof. of Physiology and Physiological Surgery.* (**1,** 1950)

Peterson, William H., Ph.D. Univ. of Wisconsin, Biochemistry Bldg., Madison. *Prof. of Biochemistry.* (**2,** 1919; **5,** 1936)

Pett, L. B., M.D., Ph.D. Dept. of Natl. Health and Welfare, Ottawa, Ontario, Canada. *Dir. of Nutrition.* (**5,** 1945)

Pfeiffer, Carl C., Ph.D., M.D. Univ. of Illinois, College of Medicine, 1853 W. Polk St., Chicago 12. *Prof. and Head of Dept. of Pharmacology.* (**3,** 1938)

Pfiffner, Joseph J., Ph.D. Parke, Davis & Co., Research Labs., Detroit 32, Mich. *Research Chemist.* (**1,** 1931; **2,** 1931; **5,** 1946)

Phatak, Nilkanth M., Ph.D. Univ. of Oregon, School of Dentistry, Portland. *Assoc. Prof. and Head of Dept. of Pharmacology.* (**3,** 1941)

Philips, Frederick S., Ph.D. Sloan-Kettering Inst. for Cancer Research, 444 E. 68th Street, New York City 21. *Assoc. Member.* (**3,** 1947)

Phillips, Paul H., Ph.D. Univ. of Wisconsin, Madison. *Prof. of Biochemistry.* (**2,** 1940; **5,** 1938)

Phillips, Robert Allan, M.D. Dept. of Navy, Bureau of Medicine and Surgery, Washington 25, D. C. *Head, General Medicine and Surgery Branch, Research Div.* (**1,** 1938)

Pick, Ernst Peter, M.D. 19 E. 98th St., New York City. *Assoc. Pharmacologist, Mt. Sinai Hospital.* (**3,** 1940)

Piel, Carolyn Forman, M.D. 2150 Hyde St., Apt. 4, San Francisco 9, Calif. (**4,** 1950)

Pierce, Harold B., Ph.D. Univ. of Vermont College of Medicine, Burlington. *Prof. and Chairman of Dept. of Biochemistry.* (**2,** 1929; **5,** 1933)

Pierce, Harold Fisher, Ph.D., M.D. 583 Park Rd., West Hartford 7, Conn. *Physician, Bureau of Industrial Hygiene, State Dept. of Health, Hartford.* (**1,** 1928)

Pierce, Ira H., Ph.D. Univ. of Iowa, Iowa City. *Assoc. Prof. of Pharmacology.* (**3,** 1933)

Pigman, William W., Ph.D. Univ. of Alabama, Med.-Dent. Schools, Biochemistry Dept., Birmingham. *Assoc. Prof.* (**2,** 1950)

Pike, Frank H., Ph.D. 15 Amsterdam Ave., New York City 23. *Assoc. Prof. of Physiology, Columbia Univ.* (**1,** 1907)

Pilcher, J. Douglas, M.D. City Hospital, Scranton Rd., Cleveland, Ohio. *Retired Assoc. Prof. of Pediatrics, Western Reserve Univ. School of Medicine* (**3R,** 1911)

Pillemer, Louis, Ph.D. Western Reserve Univ., Inst. of Pathology, Cleveland, Ohio. *Prof. of Biochemistry.* (**2,** 1950; **6,** 1942)

Pincus, Gregory, Sc.D. Worcester Foundation for Exper. Biology, 222 Maple Ave., Shrewsbury, Mass. (**1,** 1935)

Pincus, I. J., M.D. Jefferson Med. College, Philadelphia, Pa. *Assoc. in Physiology.* (**1,** 1948)

Pinkerton, Henry, M.D. St. Louis Univ. School of Medicine, St. Louis, Mo. *Prof. of Pathology.* (**4,** 1931)

Pinkston, James O., Ph.D. State Univ. Med. Center at New York City, College of Medicine, Brooklyn. (**1,** 1936; **3,** 1939)

Pinson, Ernest A., Ph.D. 14 Coe Ave., Oakfield, N. Y. (**1,** 1943)

Pirani, Conrad L., M.D. Univ. of Illinois, College of Medicine, Dept. of Pathology, 1853 W. Polk St., Chicago 12. *Clin. Asst. Prof.* (**4,** 1951)

Pittman, Martha S., Ph.D. Manhattan, Kan. (**5,** 1933)

Pitts, Grover C., Ph.D. Univ. of Virginia, Physiological Lab., Charlottesville. *Asst. Prof.* (**1,** 1951)

Pitts, Robert F., Ph.D., M.D. Cornell Univ. Med. College, 1300 York Ave., New York City. *Prof. and Head of Dept. of Physiology and Biophysics.* (**1,** 1934)

Platner, Wesley S., Ph.D. Univ. of Missouri School of Medicine, 107 McAlester Hall, Columbia. *Assoc. Prof. of Physiology and Pharmacology.* (**1,** 1951)

Plaut, Gerhard W. E., Ph.D. Univ. of Wisconsin, Inst. for Enzyme Research, Madison 6. *Asst. Prof.* (**2,** 1952)

Plummer, Albert J., M.D., Ph.D. Ciba Pharmaceutical Products, Inc., Summit, N. J. *Sr. Pharmacologist.* (**3,** 1950)

Pollack, Herbert, Ph.D., M.D. 70 E. 77th St., New York City 21. *Assoc. Physician and Chief of Metabolism Clinics, Mt. Sinai Hospital.* (**1,** 1933; **5,** 1935)

Pomerat, Charles Marc, Ph.D. Univ. of Texas Med. School, Galveston. *Prof. of Anatomy.* (**1,** 1944)

Pommerenke, W. T., Ph.D., M.D. Univ. of Rochester School of Medicine and Dentistry, Roches-

ter 20, N.Y. *Assoc. Prof. of Obstetrics and Gynecology.* (**1,** 1947)

Pond, Samuel E., Ph.D. 400 S. Main St., East Hartford, Conn. *Consulting Engineer, P. and W. A. Div., United Aircraft Corp.* (**1,** 1924)

Ponder, Eric, M.D., Sc.D. Nassau Hospital, Mineola, Long Island, N. Y. (**1,** 1931)

Poppen, John R., M.D. 2509 Santa Monica Blvd., Santa Monica, Calif. *Capt. (MC) USN Retired.* (**1,** 1948)

Popper, Hans, Ph.D., M.D. Cook County Hospital, 1825 W. Harrison St., Chicago 12, Ill. *Dir. of Dept. of Pathology and Scientific Dir. of Hektoen Inst. for Med. Research, Cook Co. Hosp.; Assoc. Prof. of Pathology, Northwestern Univ. Med. School.* (**4,** 1942)

Porter, Eugene L., Ph.D. Univ. of Texas Med. Branch, Galveston. *Prof. of Physiology.* (**1,** 1913)

Porter, J. R., Ph.D. State Univ. of Iowa, College of Medicine, Iowa City. *Prof. of Bacteriology.* (**6,** 1950)

Porter, Thelma, Ph.D. Univ. of Chicago, Chicago, Ill. *Prof. and Chairman of Dept. of Home Economics.* (**5,** 1944)

Post, Robert Lickely, M.D. 6310 Vanderbilt Med. School, Nashville 4, Tenn. *Instr. in Physiology.* (**1,** 1950)

Posternak, Jean M., M.D. Univ. of Geneva, Dept. of Physiology, Geneva, Switzerland. *Head of Dept.* (**1,** 1951)

Poth, Edgar J., M.D., Ph.D. Univ. of Texas Med. School, Galveston. *Prof. of Surgery.* (**1,** 1946)

Potter, Truman S., M.D. 117 Northampton Rd., Amherst, Mass. *Independent Research Worker.* (**6,** 1939)

Potter, Van R., Ph.D. Univ. of Wisconsin Med. School, McArdle Memorial Lab., Madison. *Prof. of Oncology.* (**2,** 1941)

Powell, Horace M., Sc.D. 5565 Washington Blvd., Indianapolis, Ind. *Head Bacteriologist, Eli Lilly & Co.* (**6,** 1934)

Power, Marschelle H., Ph.D. Mayo Clinic, Rochester, Minn. *Prof. of Physiological Chemistry, Mayo Foundation, Univ. of Minnesota.* (**2,** 1932)

Pratt, Frederick H., M.D. Boston Univ. School of Medicine, Boston, Mass. *Prof. Emeritus of Physiology.* (**1R,** 1919)

Pratt, Joseph H., M.D., Sc.D. New England Med. Center, 25 Bennet St., Boston, Mass. *Physician-in-Chief, Joseph H. Pratt Diagnostic Hospital; Prof. Emeritus of Medicine, Tufts Med. School.* (**1,** 1910; **3,** 1910; **4,** 1927)

Preisler, Paul W., Ph.D., Washington Univ. School of Medicine, 4580 Scott Ave., St. Louis 10, Mo. *Research Assoc., Biochemistry.* (**2,** 1931)

Pressman, David, Ph.D. Sloan-Kettering Inst. for Cancer Research, 444 East 68 St., New York City 21. *Sr. Fellow in Cancer Research.* (**6,** 1949)

Pribram, Karl H., M.D. Inst. of Living, Burlingame Research Lab., Hartford, Conn. *Research Assoc.; Dir. of Lab. of Neurophysiology; Research Asst., Yale Univ., Depts. of Physiology and Psychology.* (**1,** 1951)

Price, Clifford W., Bio-Romo Drug Co., Inc., Baltimore, Md. *Technical Dir.* (**6,** 1946)

Prinzmetal, Myron, M.A., M.D. 300 S. Beverly Drive, Beverly Hills, Calif. *Sr. Attending Physician, Cedars of Lebanon Hospital, Los Angeles.* (**3,** 1941)

Prosser, C. Ladd, Ph.D. Univ. of Illinois, Natural History Bldg., Urbana. (**1,** 1935)

Puestow, Charles B., M.D., Ph.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago. *Asst. Prof. of Surgery.* (**1,** 1934)

Pugsley, L. I., Ph.D. Dept. of Natl. Health and Welfare, Food and Drug Lab., Ottawa, Ontario, Canada. *Chief of Lab. Service.* (**2,** 1937)

Putnam, Frank W., Ph.D. The Biochemical Lab., Tennis Court Rd., Cambridge, England. *Asst. Prof. of Biochemistry and Markle Scholar in Med. Sciences, Univ. of Chicago* (on leave). (**2,** 1947)

Quackenbush, Forrest W., Ph.D. R-2, Brookston, Ind. *Prof. and Head of Dept. of Agricultural Chemistry, Purdue Univ.* (**2,** 1946)

Quaife, Mary L., Ph.D. Distillation Products Ind., Div. of Eastman Kodak Co., Rochester 3, N. Y. *Sr. Research Chemist, Dept. of Biochemistry.* (**2,** 1948; **5,** 1951)

Quastel, J. H., D.Sc., Ph.D. Research Inst., Montreal General Hosp., 3619 University St. Montreal, Quebec, Canada. *Prof. of Biochemistry, McGill Univ.* (**2,** 1948)

Queen, Frank B., M.D. Univ. of Oregon School of Medicine, 3181 S.W. Sam Jackson Park Rd., Portland. *Prof. of Pathology.* (**4,** 1941)

Quick, Armand J., M.D., Ph.D. Marquette Med. School, 561 N. 15th St., Milwaukee 3, Wis. *Prof. and Dir. of Dept. of Biochemistry.* (**2,** 1932; **3,** 1937)

Quigley, J. P., Ph.D. Univ. of Tennessee, Memphis 3. *Prof. and Chief of Div. of Physiology.* (**1,** 1929; **3,** 1945)

Quilligan, J. J., M.D., M.B. Children's Med. School, Maple and Welborn, Dallas 4, Texas. (**6,** 1950)

Quimby, Freeman Henry, Ph.D. Office of Naval Research, Code 441, Navy Dept., Washington 25, D. C. *Acting Head, Physiology Branch.* (**1,** 1950)

Quinby, William C., M.D. Harvard Univ. Med. School, Boston, Mass. *Clin. Prof. of Genitourinary Surgery.* (**1R,** 1916)

Quinn, Edmond John, Ph.D. 106 N. Lee Ave., Rockville Center, Long Island, N. Y. *Medicinal Sales Div., Merck & Co., Inc., Rahway, N. J.* (**2R,** 1927; **5R,** 1933).

Raab, Wilhelm, M.D. Univ. of Vermont College

of Medicine, Div. of Exper. Medicine, Burlington. *Prof.; Head of Division and of Cardiovascular Clin. Research Unit.* (**1**, 1949)

Rachele, Julian R., Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City 21. *Assoc. Prof. of Biochemistry.* (**2**, 1948)

Rackemann, Francis M., M.D. 263 Beacon St., Boston, Mass. *Physician, Massachusetts General Hospital; Lecturer in Medicine, Harvard Med. School.* (**6**, 1923)

Racker, Efraim, M.D. New York Univ. College of Medicine, New York City 16. *Asst. Prof. of Microbiology.* (**2**, 1948)

Raffel, Sidney, Sc.D., M.D. Stanford Univ., Dept. of Bacteriology and Exper. Pathology, Palo Alto, Calif. *Asst. Prof.* (**6**, 1938)

Ragan, Charles, M.D. Columbia Univ., College of Physicians and Surgeons, New York City 32. *Assoc. Prof. of Medicine.* (**1**, 1952)

Rahn, Hermann, Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Asst. Prof. of Physiology.* (**1**, 1944)

Rake, Geoffrey W., M.B. 745 Fifth Ave., New York City 22. (**6**, 1939)

Rakestraw, Norris W., Ph.D. Univ. of California, Scripps Inst. of Oceanography, La Jolla. *Prof. of Chemistry.* (**2**, 1925)

Rakieten, Nathan, Ph.D. South Shore Analytical and Research Lab., Box 47, Islip, L. I., N. Y. (**1**, 1941)

Ralli, Elaine P., M.D. 477 First Ave., New York City. *Assoc. Prof. of Medicine, New York Univ. College of Medicine.* (**1**, 1934; **5**, 1933)

Ralston, H. J., Ph.D. College of Physicians and Surgeons, 344 14th St., San Francisco 3, Calif. *Assoc. Prof. of Physiology.* (**1**, 1947)

Rammelkamp, Charles H., Jr., M.D. Western Reserve Univ., Dept. of Preventive Medicine, Cleveland 6, Ohio. *Assoc. Prof. of Medicine.* (**6**, 1943)

Ramsey, Robert Weberg, Ph.D. Med. College of Virginia, Richmond. *Prof. of Physiology.* (**1**, 1939)

Randall, Charles C. Vanderbilt Univ. School of Medicine, Dept. of Pathology, Nashville 5, Tenn. *Asst. Prof.; Assoc. Prof. of Bacteriology and Dir., Div. of Bacteriology.* (**4**, 1952)

Randall, Lowell O., Ph.D. Hoffmann-LaRoche, Inc., Nutley 10, N. J. *Pharmacologist.* (**2**, 1939; **3**, 1950)

Randall, Walter C., Ph.D. St. Louis Univ. School of Medicine, 1402 S. Grand Blvd., St. Louis, Mo. *Instr. in Physiology.* (**1**, 1943)

Randall, William A., Ph.D. Food and Drug Admin., Washington 25, D. C. *Bacteriologist, Div. of Penicillin Control and Immunology.* (**6**, 1946)

Rane, Leo, Ph.D. 571 Hammond St., Chestnut Hill 67, Mass. (**6**, 1942)

Rantz, Lowell A., M.D. Stanford Univ. School of Medicine, San Francisco 15, Calif. *Assoc. Prof. of Medicine.* (**3**, 1946)

Rapoport, Samuel, M.D., Ph.D. Seelosgasse 20, Vienna 13, Austria. (**2**, 1941)

Rapport, David, M.D. 136 Harrison Ave., Boston, Mass. *Prof. of Physiology, Tufts College Med. School.* (**1**, 1922)

Rapport, Maurice M., Ph.D. Sloan-Kettering Inst. for Cancer Research, N. Y. State Dept. of Health, 444 E. 68th St., New York City 21. *Assoc. Research Scientist (Immunology).* (**2**, 1950)

Rashkind, William J., M.D. Univ. of Pennsylvania School of Medicine, Philadelphia 4. *Asst. Prof. of Physiology.* (**1**, 1952)

Raska, Sigwin, Ph.D. Univ. of Illinois Hospitals, 1819 W. Polk St., Chicago 12. *Intern.* (**1**, 1947)

Rasmussen, A. F., Ph.D., M.D. Univ. of California at Los Angeles, Med. School, Los Angeles 24. *Prof. of Infectious Diseases (Virology).* (**6**, 1949)

Rasmussen, Andrew Theodore, Ph.D. Univ. of Minnesota Med. School, Minneapolis. *Prof. of Neurology.* (**1**, 1919)

Ratcliffe, Herbert L., D.Sc. Univ. of Pennsylvania, Dept. of Pathology, Philadelphia 4. *Assoc. Prof. of Comparative Pathology; Pathologist, Zoological Society of Philadelphia.* (**4**, 1950)

Rather, Lelland J., M.D. Stanford Univ. School of Medicine, Dept. of Pathology, 2398 Sacramento St. San Francisco, Calif. *Assoc. Prof.* (**4**, 1951)

Ratner, Bret, M.D. 50 E. 78th St., New York City. *Prof. of Pediatrics and Immunology, New York Med. College.* (**4**, 1940; **6**, 1928)

Ratner, Sarah, Ph.D. New York Univ. College of Medicine, 477 First Ave., New York City 16. *Asst. Prof. of Pharmacology.* (**2**, 1944)

Rau, G. Carl, Ph.D. Univ. of Missouri School of Medicine, Columbia. *Assoc. Prof. of Physiology and Pharmacology.* (**1**, 1951)

Raulston, B. O., M.D. 200 S. Hudson Ave., Los Angeles, Calif. *Prof. of Medicine and Dir. of Clin. Teaching and Assoc. Dean, Univ. of Southern California School of Medicine.* (**3**, 1942)

Ravdin, I. S., M.D. Univ. of Pennsylvania School of Medicine, Philadelphia. *John Rhea Barton Prof. of Surgery; Dir., Harrison Dept. of Surgical Research.* (**1**, 1930, **4**, 1930)

Rawson, Rulon W., M.D. Memorial Hospital, New York City. *Attending Physician; Chief, Dept. of Clin. Investigation, Sloan-Kettering Inst.* (**1**, 1947)

Raymond, Albert L., Ph.D. G. D. Searle and Co., P. O. Box 5110, Chicago 80, Ill. *Vice Pres. in charge of Research and Development.* (**2**, 1932)

Rebuck, John W., M.D., Ph.D. Henry Ford Hospital, Dept. of Labs., Detroit 2, Mich. *Assoc. in Pathology.* (**4**, 1950)

Redfield, Alfred C., Ph.D. Woods Hole, Mass. *Prof. of Physiology, Harvard Univ.* (**1,** 1919)

Reed, Carlos I., Ph.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago. *Prof. of Physiology.* (**1,** 1923)

Reed, Emerson A., Ph.D. Hahnemann Med. College, Philadelphia, Pa. *Asst. Prof. of Physiology.* (**1,** 1948)

Reed, Lester J., Ph.D. Univ. of Texas, Austin 12. *Asst. Prof. of Chemistry.* (**2,** 1952)

Reese, John D., M.D. Western Pennsylvania Hospital, Inst. of Pathology, 4800 Friendship Ave., Pittsburgh 24. (**4,** 1949)

Rehm, Warren S., Jr., Ph.D., M.D. Univ. of Louisville School of Medicine, Louisville, Ky. *Prof. of Physiology.* (**1,** 1945)

Reid, James C., Ph.D. Natl. Insts. of Health, Natl. Cancer Inst., Bethesda 14, Md. *Sr. Chemist.* (**2,** 1952)

Reid, Marion Adelaide, Ph.D. New Jersey College for Women, New Brunswick. *Asst. Prof., Dept. of Zoology.* (**1,** 1941)

Reid, Mary E., Ph.D. Natl. Insts. of Health, Bethesda 14, Md. *Cytologist.* (**5,** 1947)

Reilly, Joseph, Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City 21. *Instr. in Pharmacology.* (**3,** 1952)

Reimann, Hobart A., M.D. American Univ., Beirut, Lebanon. *Visiting Prof. of Medicine.* (**4,** 1933)

Reimann, Stanley P., M.D., Sc.D. 703 W. Phil-Ellena St., Mount Airy, Philadelphia, Pa. *Dir. of Research Inst. of Lankenau Hospital; Prof. of Oncology, Hahnemann Med. College and Hospital, Philadelphia.* (**1,** 1921; **4,** 1924)

Reinecke, Roger M., Ph.D., M.D. Univ. of Puerto Rico, School of Medicine, School of Tropical Medicine, San Juan. (**1,** 1947)

Reineke, E. P., Ph.D. Michigan State College, Dept. of Physiology and Pharmacology, East Lansing. *Professor.* (**1,** 1950)

Reiner, John M., Ph.D. Francis Delafield Hospital, 99 Fort Washington Ave., New York City. (**1,** 1947)

Reiner, Laszlo, M.D., Ph.D. Wallace and Tiernan Products, Inc., 11 Mill St., Belleville 9, N. J. *Dir., Pharmaceutical Research.* (**2,** 1942; **6,** 1933)

Reinhard, John F., Ph.D. Warner Inst. for Therapeutic Research, 113 West 18th St., New York City 11. *Dir. of Pharmacologic Research.* (**3,** 1952)

Reinhardt, William O., M.D. Univ. of California, Berkeley 4. *Assoc. Prof. of Anatomy.* (**1,** 1950)

Reinhold, John G., Ph.D. Univ. of Pennsylvania Hospital, 702 Maloney Bldg., Philadelphia 4, Pa. *Asst. Prof. of Physiological Chemistry and Medicine.* (**2,** 1936)

Rekers, Paul E., M.D. Inst. for Med. Research, Cedars of Lebanon Hospital, 4751 Fountain Ave., Los Angeles 29, Calif. *Research Assoc* (**4,** 1950)

Remington, John W., Ph.D. Med. College of Georgia, Augusta. *Assoc. Prof. of Physiology.* (**1,** 1943)

Remington, Roe E., Ph.D. 1715 Kissingbower Rd., Augusta, Ga. (**2,** 1930; **5R,** 1934)

Renfrew, Alice G., Ph.D. Mellon Inst. of Industrial Research, Univ. of Pittsburgh, Pittsburgh, Pa. *Sr. Fellow, Medicinal Chemistry.* (**2,** 1939)

Rennick, Barbara R., M.S., M.D. State Univ. of New York Med. Center at Syracuse, Syracuse 10. *Inst. in Physiology.* (**3,** 1952)

Reynolds, May S., Ph.D. Univ. of Wisconsin, School of Home Economics, Dept. of Foods and Nutrition, Madison. *Prof.* (**5,** 1951)

Reynolds, Orr E., Ph.D. Office of Naval Research, Washington, D. C. *Dir., Biological Sciences Div.* (**1,** 1948)

Reynolds, Samuel R. M., Ph.D., Sc.D. 4028 Deepwood Rd., Baltimore 18, Md. *Staff Member and Physiologist, Carnegie Inst. of Washington Dept. of Embryology.* (**1,** 1932)

Reznikoff, Paul, M.D. New York Hospital, 525 E. 68th St., New York City. *Prof. of Clin. Medicine, Cornell Univ. Med. College.* (**1,** 1927)

Rhines, Ruth, Ph.D., M.D. 321 Newman Ct., Lake Bluff, Ill. (**1,** 1950)

Rhoads, Cornelius Packard, M.D. Memorial Hospital, 444 E. 68th St., New York City. *Dir.; Prof. of Pathology, Cornell Univ. Med. College.* (**4,** 1930)

Rhoads, Jonathan Evans, M.D., D.Sc. Univ. of Pennsylvania School of Medicine, Philadelphia 4. *Prof. of Surgery; Chief, Surgical Div. II, Hospital of the Univ. of Pennsylvania.* (**1,** 1946)

Rice, Christine E., Ph.D. Animal Diseases Research Inst., Canadian Dept. of Agriculture, Hull, Quebec, Canada. *Agricultural Scientist.* (**6,** 1938)

Rice, Eldon E., Ph.D. 9152 West 124th St., Palos Park, Ill. *In Charge of Nutrition and Biochemical Research Div.* (**5,** 1951)

Rice, Harold V., Ph.D. Univ. of Alberta, Edmonton, Alberta, Canada. *Prof. of Physiology.* (**1,** 1948)

Rice, James C., Ph.D. Univ. of Mississippi, P. O. Box 475, University. *Prof. of Pharmacology.* (**3,** 1941)

Rich, Arnold Rice, M.D. Johns Hopkins Hospital, Baltimore, Md. *Baxley Prof. of Pathology, Johns Hopkins Univ.* (**4,** 1924)

Richards, Alfred N., Ph.D., M.D. 737 Rugby Rd., Bryn Mawr, Pa. *Prof. Emeritus of Pharmacology, Univ. of Pennsylvania.* (**1R,** 1900; **2,** 1906; **3R,** 1909)

Richards, Oscar W., Ph.D. American Optical Co., Research Lab., P.O. Box 137, Stamford, Conn. *Chief Biologist.* (**1,** 1934)

Richards, Richard Kohn, M.D. Abbott Labs., North Chicago, Ill. *Assoc. Dir. of Pharmacologic Research; Prof. Lecturer in Pharmacology, Northwestern Univ. Med. School.* (**1,** 1938; **3,** 1947)

Richardson, Alfred W., Ph.D. Indiana Univ., Medical Bldg., Bloomington. *Asst. Prof. of Physiology.* (**1,** 1952)

Richardson, Arthur P., M.D. Emory Univ. School of Medicine, Emory University, Ga. *Prof. and Chairman of Dept. of Pharmacology.* (**3,** 1939)

Richardson, James A., Ph.D. Med. College of South Carolina, Dept. of Pharmacology, Charleston 16. *Asst. Prof.* (**3,** 1951)

Richardson, Luther R., Ph.D. P. O. Box 102, College Station, Tex. *Prof. of Biochemistry and Nutrition, Texas A & M College.* (**5,** 1942)

Richert, Dan A., Ph.D. State Univ. Med. Center at Syracuse Univ., Dept. of Biochemistry, 766 Irving Ave., Syracuse 10, N. Y. *Asst. Prof.* (**2,** 1951)

Richter, Curt P., Ph.D. Phipps Psychiatric Clinic, Johns Hopkins Hospital, Baltimore, Md. *Assoc. Prof. of Psycho-biology, Johns Hopkins Univ.* (**1,** 1924)

Richter, Maurice N., M.D. 303 E. 20th St., New York City. *Prof. of Pathology, Bellevue Med. Center; Dir. Dept. of Pathology, Univ. Hospital.* (**4,** 1931)

Ricketts, Henry T., M.D. Univ. of Chicago, Dept. of Medicine, Chicago, Ill. *Assoc. Prof. of Medicine.* (**1,** 1940)

Riddle, Oscar, Ph.D. Route 4, Plant City, Fla. (**1R,** 1919)

Riegel, Byron, Ph.D. G. D. Searle and Co., P. O. Box 5110, Chicago 80, Ill. *Dir. of Chemical Research.* (**2,** 1942)

Riegel, Cecilia, Ph.D. Lankenau Hospital, Biochemistry Lab., Girard and Corinthian Aves., Philadelphia 30, Pa. *Biochemist.* (**2,** 1938)

Rigdon, R. H., M.D. Univ. of Texas Med. Branch, Galveston. *Prof. of Pathology; Dir., Lab. of Experimental Pathology.* (**4,** 1941)

Riggs, Douglas S., M.D. Harvard Med. School, Boston, Mass. *Assoc. in Pharmacology.* (**3,** 1948)

Riggs, Lloyd K., Ph.D. Natl. Dairy Research Labs., Oakdale, L. I., N. Y. *Dir. of Nutritional Research.* (**2,** 1929)

Riker, Walter F., Jr., M.D. Cornell Univ. Med. College, 1300 York Ave., New York City 21. *Assoc. Prof. of Pharmacology.* (**3,** 1947)

Riley, Richard F., Ph.D. P. O. Box 4164, West Los Angeles 24, Calif. *Asst. Clin. Prof. of Radiology, Univ. of California.* (**3,** 1950)

Riley, Richard L., M.D. 1901 Dixon Rd., Baltimore 9, Md. *Dept. of Environmental Medicine, Johns Hopkins Univ.* (**1,** 1948)

Rinehart, James F., M.D. Univ. of California Med. School, Parnassus and Third Aves., San Francisco. *Prof. of Pathology.* (**4,** 1933)

Ring, Gordon C., Ph.D. Temple Univ. Med. School, Broad St., Philadelphia, Pa. (**1,** 1933)

Rinzler, Seymour H., M.D. New York Univ. College of Medicine, New York City 19. *Instr. in Physical Medicine and Rehabilitation.* (**3,** 1951)

Rioch, David McKenzie, M.D. Chestnut Lodge Sanitarium, 500 W. Montgomery Ave., Rockville, Md. *Dir. of Research.* (**1,** 1931)

Rittenberg, David, Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Prof. of Biochemistry.* (**2,** 1939)

Ritzman, E. G., A.M. Univ. of New Hampshire, Durham. *Research Prof.* (**5R,** 1933)

Rivers, T. M., M.D., Sc.D. Hospital of Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Director.* (**4,** 1925; **6,** 1921)

Robb, Jane Sands, Sc.D., M.D. State Univ. of New York at Syracuse, College of Medicine, Syracuse. *Assoc. Prof. of Pharmacology.* (**1,** 1924; **3,** 1952)

Robbins, Benjamin Howard, M.S., M.D. Vanderbilt Univ. School of Medicine, Nashville, Tenn. *Assoc. Prof. of Pharmacology; Prof. of Anesthesiology.* (**3,** 1936)

Robbins, Frederick C., M.D. 2243 Harcourt Dr., Cleveland Heights, Ohio. (**6,** 1952)

Robbins, Kenneth C., Ph.D. 5648 N. Tolman Ave., Chicago, Ill. *Biochemist, Armour & Co. Research Div.* (**6,** 1950)

Robbins, Mary L., Ph.D. George Washington Univ. School of Medicine, 1335 H St., N.W., Washington 5, D. C. *Asst. Prof. of Bacteriology.* (**6,** 1946)

Robbins, Stanley L., Harvard Med. School, Mallory Inst. of Pathology, Boston City Hospital, Boston 18, Mass. *Asst. Pathologist and Instr. in Pathology, Mallory Inst.; Asst. Prof. of Pathology, Boston Univ. and Tufts Med. School.* (**4,** 1952)

Roberts, Edward F., M.D., Ph.D. 233 St. George Rd., Ardmore, Pa. (**6,** 1932)

Roberts, Eugene, Ph.D. Washington Univ. Med. School, 4580 Scott Ave., St. Louis 10, Mo. *Research Assoc. in Cancer.* (**2,** 1950)

Roberts, Joseph T., M.D., Ph.D. Veterans Admin. Hospital, Batavia, N. Y. *Chief of Med. Service.* (**1,** 1947)

Roberts, Lydia J., Ph.D. Univ. of Puerto Rico, Rio Piedras, P. R. *Prof. and Chairman of Dept. of Home Economics.* (**5,** 1933)

Roberts, Sidney, Ph.D. Univ. of California Med. School, Los Angeles 24. *Assoc. Prof. of Physiological Chemistry.* (**1,** 1946; **2,** 1950)

Robertson, Elizabeth Chant, M.D., Ph.D. Univ. of Toronto, Toronto, Ontario, Canada. *Research Fellow in Pediatrics.* (**5,** 1939)

Robertson, Oswald H., M.D. Stanford Univ.,

Dept. of Biology, Palo Alto, Calif. *Prof. of Medicine.* (**4R,** 1932)

Robertson, William v. B., Ph.D. Univ. of Vermont, College of Medicine, Dept. of Biochemistry, Burlington. *Assoc. Prof.* (**2,** 1952)

Robinson, Charles Summers, Ph.D. Vanderbilt Univ. Med. School, Nashville, Tenn. *Prof. of Biochemistry.* (**2,** 1925)

Robinson, Elliott S., M.D., Ph.D. 279 Eastside Drive, Concord, N. H. (**6,** 1935)

Robinson, G. Canby, M.D., 4712 Keswick Rd., Baltimore, Md. *Exec. Sec., Maryland Tuberculosis Assoc.* (**1R,** 1912)

Robinson, Harry J., Ph.D., M.D. Merck Inst. for Therapeutic Research, Rahway, N. J. *Asst. Dir.* (**3,** 1946)

Robinson, Herbert E., Ph.D. Swift and Co., Research Labs., Union Stock Yards, Chicago 9, Ill. *Asst. Dir. of Research.* (**5,** 1947)

Robinson, Howard W., Ph.D. Broad and Ontario Sts., Philadelphia, Pa. *Prof. of Physiological Chemistry, Temple Univ. School of Medicine.* (**2,** 1929)

Robinson, Sid, Ph.D. Indiana Univ. Med. School, Bloomington. *Prof. of Physiology.* (**1,** 1941)

Robinson, True W., Ph.D. Med. College of Alabama, Dept. of Physiology, Birmingham 5. (**1,** 1948)

Roblin, Richard O., Jr., Ph.D. 1937 W. Main St., Stamford, Conn. *Dir. of Chemotherapy Div., American Cyanamid Co.* (**2,** 1946)

Robscheit-Robbins, F.S., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Assoc. in Pathology.* (**1,** 1925; **4,** 1930)

Rocha e Silva, Mauricio, M.D. Instituto Biologico, Sao Paulo, Brazil. *Chief, Biochemistry and Pharmacology Section.* (**3,** 1952)

Rodahl, Kaare, M.D. Arctic Aeromed. Lab., Ladd A.F.B., A.P.O. 731, Seattle, Wash. *Chief, Dept. of Physiology.* (**1,** 1952)

Rodbard, Simon, Ph.D. Michael Reese Hospital, Cardiovascular Dept., 29th and Ellis Aves., Chicago, Ill. (**1,** 1942)

Roderuck, Charlotte E., Ph.D. Iowa State College, Dept. of Foods and Nutrition, Ames. *Asst. Prof.* (**5,** 1951)

Roe, Joseph Hyram, Ph.D. George Washington Univ. School of Medicine, Washington, D. C. *Prof. of Biochemistry.* (**2,** 1927; **5,** 1933)

Roeder, Kenneth D., M.A. Tufts College, Medford, Mass. *Assoc. Prof. of Biology.* (**1,** 1942)

Roepke, Martin Henry, Ph.D. Univ. of Minnesota. Univ. Farm, St. Paul. *Prof. of Veterinary Medicine.* (**3,** 1937)

Rogers, Charles G., Ph.D. Oberlin College, Oberlin, Ohio. *Prof. of Comparative Physiology.* (**1R,** 1911)

Rogers, Fred T., Ph.D., M.D. Dallas Med. and Surgical Clinic, 4105 Live Oak St., Dallas 1, Tex. (**1,** 1917)

Rogers, Stanfield, Rockefeller Inst. for Med. Research, 66th St. & York Ave., New York City 21. *Asst. in Pathology and Bacteriology.* (**4,** 1952)

Rogoff, Julius M., M.D., Sc.D. Central Ave. and S. Beach Dr., Belle Island, Rowayton, Conn. (**1R,** 1916; **3R,** 1916)

Roine, Paavo K., Ph.D. Viikin Koetila, Malmo, Finland. (**5,** 1950)

Rolfe, Daniel Thomas, M.D. Meharry Med. College, Nashville 8, Tenn. *Chairman, Dept. of Physiology and Pharmacology; Prof. of Physiology.* (**1,** 1950)

Roll, Paul M., Ph.D. Sloan-Kettering Inst. for Cancer Research, 444 E. 68th St., New York City 21. *Assoc. Member.* (**2,** 1950)

Ronzoni, Ethel, Ph.D. Washington Univ. Med. School, 640 S. Kingshighway, St. Louis 10, Mo. *Asst. Prof. of Biological Chemistry, Neuropsychiatry Dept.* (**2,** 1923)

Roos, Albert, M.D. Washington Univ. School of Medicine, Dept. of Physiology, Euclid Ave. and Kingshighway, St. Louis 10, Mo. *Instr. in Physiology and Surgery.* (**1,** 1949)

Root, Howard F., M.D. Joslin Clinic, 81 Bay State Rd., Boston, Mass. *Assoc. in Medicine, Harvard Med. School.* (**5,** 1933)

Root, Mary Avery, Ph.D. Eli Lilly and Co., Research Labs., Indianapolis 6, Ind. *Pharmacologist.* (**3,** 1952)

Root, Raymond W., Ph.D. College of the City of New York, 139th St. and Convent Ave., New York City. *Assoc. Prof. of Biology; Head of Div. of Physiology.* (**1,** 1949)

Root, Walter S., Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Prof. of Physiology.* (**1,** 1932)

Rosahn, Paul D., M.D. 92 Grand St., New Britain, Conn. *Pathologist, New Britain General Hospital; Assoc. Clin. Prof. of Pathology, Yale Univ. School of Medicine.* (**4,** 1934)

Rose, Harry M., M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. Prof. of Bacteriology.* (**6,** 1949)

Rose, Jerzy E., M.D. Johns Hopkins Univ. Med. School, Dept. of Physiology, 710 N. Washington St., Baltimore 5, Md. *Asst. Prof. of Physiology and Psychiatry.* (**1,** 1949)

Rose, William C., Ph.D. Univ. of Illinois, Urbana. *Prof. of Biochemistry.* (**2,** 1912; **5,** 1933)

Rosenblueth, Arturo, M.D. Instituto Nacional de Cardiologia, Calzada de la Piedad 300, Mexico D.F., Mexico. (**1,** 1932)

Rosenfeld, Morris, M.D. Johns Hopkins School of Medicine, Baltimore, Md. *Assoc. Prof. of Pharmacology and Exper. Therapeutics.* (**3,** 1934)

Rosenow, Edward C., M.D. Longview State Hospital, Research Dept., Cincinnati 16, Ohio. (**4,** 1913; **6R,** 1915)

Rosenthal, Otto, M.D. Univ. of Pennsylvania School of Medicine, Philadelphia. *Asst. Prof. of Cancer Research, Harrison Dept. of Surgical Research.* (**2,** 1946)

Rosenthal, Sanford M., M.D. Natl. Insts. of Health, Bethesda, Md. *Chief, Section in Pharmacology and Toxicology, Exper. Biology Inst.* (**3,** 1925)

Rosenthal, S. R., M.D., Ph.D. Univ. of Illinois College of Medicine, Chicago. *Assoc. Prof. of Preventive Medicine and Public Health; Dir., Institution for Tuberculosis Research of Univ. of Illinois.* (**1,** 1948; **4,** 1941)

Ross, Joseph F., M.D. Robert Dawson Evans Memorial, 65 E. Newton St., Boston, Mass. *Physician, Massachusetts Memorial Hospital; Assoc. Prof. of Medicine, Boston Univ. School of Medicine.* (**4,** 1941)

Rossiter, R. J., M.D., Ph.D. Univ. of Western Ontario, London, Ontario, Canada. *Prof. of Biochemistry.* (**2,** 1948)

Rostorfer, Howard Hayes, Ph.D. Indiana Univ., Bloomington. *Asst. Prof. of Physiology.* (**1,** 1946)

Roth, George B., M.D. 3814 T St. N.W., Washington. D. C. *Prof. Emeritus of Pharmacology, George Washington Univ.* (**1R,** 1914; **3R,** 1911)

Roth, Grace M., Ph.D. Mayo Clinic, Rochester, Minn. *Assoc. in Clin. Physiology.* (**1,** 1939)

Roth, James Luther d'Aumont, M.D., Ph.D. Univ. of Pennsylvania Grad. Hospital, 19th and Lombard Sts., Philadelphia 46. *Research Fellow in Gastroenterology, Grad. School of Medicine, Univ. of Pennsylvania.* (**1,** 1950)

Roth, L. W., Ph.D. Abbott Research Labs., Dept. of Pharmacology, North Chicago, Ill. *Sr. Research Pharmacologist.* (**1,** 1947; **3,** 1950)

Rothchild, Irving, Ph.D. Ohio State Univ., Dept. of Obstetrics and Gynecology, Univ. Hospital, Columbus. (**1,** 1949)

Rothemund, Paul W. K., Dr.-Ing. Antioch College, Yellow Springs, Ohio. *Prof. of Chemistry; Research Chemist, C. F. Kettering Foundation.* (**2,** 1940)

Rothlin, Ernst, M.D. Sonnenweg 6, Basle, Switzerland. *Prof. of Medicine.* (**3,** 1951)

Rothstein, A., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester 7, N. Y. *Asst. Prof. of Pharmacology.* (**1,** 1949; **3,** 1952)

Rous, Peyton, M.D., Sc.D. Rockefeller Inst. for Med. Research, York Ave. at 66th St., New York City. *Member Emeritus.* (**4,** 1913)

Routh, Joseph I., Ph.D. State Univ. of Iowa Clinical Biochemistry Lab., Iowa City. *Prof. and Head of Lab.* (**2,** 1942)

Rovenstine, Emery Andrew, M.D. 477 First Ave., New York City. *Prof. and Chairman, Dept. of Anesthesiology, New York Univ.-Bellevue Med. Center.* (**3,** 1944)

Rowntree, Jennie I., Ph.D. Univ. of Washington, Seattle. *Prof. of Home Economics.* (**5,** 1933)

Rowntree, L. G., M.D., Sc.D. Dupont Bldg., E. Flagler St. at Second Ave., Miami, Fla. (**1R,** 1911; **2,** 1910; **3R,** 1908)

Rubenstein, Boris B., Ph.D., M.D. 5121 Ellis Ave., Chicago 15, Ill. (**1,** 1934)

Rubin, Saul H., Ph.D. Hoffmann-LaRoche, Inc., Nutley 10, N. J. *Dir. of Nutrition Labs.* (**2,** 1947; **5,** 1947)

Ruch, Theodore C., Ph.D. Univ. of Washington, G405 Health Sciences Bldg., Seattle 5. *Prof. of Physiology and Biophysics.* (**1,** 1933)

Ruchman, Isaac, Ph.D. Cincinnati General Hospital, Cincinnati, Ohio. *Asst. Prof. of Bacteriology.* (**6,** 1948)

Rugh, Roberts, Ph.D. Columbia Univ., College of Physicians and Surgeons, Dept. of Radiology, New York City 32. *Assoc. Prof. of Radiology.* (**1,** 1950)

Ruhe, C. H. William, M.D. Univ. of Pittsburgh, School of Medicine, 3941 O'Hara St., Pittsburgh 13, Pa. *Asst. Prof. of Physiology and Pharmacology.* (**1,** 1951)

Rusch, Harold Paul, M.D. Univ. of Wisconsin Med. School, McArdle Memorial Lab., Madison 6. *Prof. of Oncology, Dir. of Lab.* (**4,** 1940)

Rushmer, Robert F., M.D. Univ. of Washington School of Medicine, Dept. of Physiology and Biophysics, Seattle 5. *Asst. Prof.* (**1,** 1949)

Rusoff, Louis L., Ph.D. Louisiana State Univ., Baton Rouge. *Assoc. Dairy Nutritionist in Exper. Station and Assoc. Prof. of Nutrition.* (**5,** 1948)

Russell, Jane A., Ph.D. Emory Univ. School of Medicine, Dept. of Biochemistry, Emory Univ., Ga. (**1,** 1939)

Russell, Walter C., Ph.D. New Jersey Agricultural Exper. Station, Rutgers Univ., New Brunswick. *Research Specialist and Prof. of Agricultural Biochemistry.* (**2,** 1932; **5,** 1933)

Rustigan, Robert, Ph.D. Univ. of Chicago, Dept. of Bacteriology and Parasitology, 5724 Ellis Ave., Chicago 13, Ill. *Asst. Prof.* (**6,** 1951)

Ryan, Andrew Howard, M.D. Chicago Med. School, 710 S. Wolcott Ave., Chicago, Ill. *Assoc. Prof. of Physiology and Pharmacology.* (**1,** 1912)

Rytand, David A., M.D. Stanford Univ. Hospital, San Francisco 15, Calif. *Assoc. Prof. of Medicine, Stanford Univ. School of Medicine.* (**3,** 1946)

Sabin, Albert, M.D. Children's Hospital Research Foundation, Cincinnati, Ohio. *Prof. of Research Pediatrics, Univ. of Cincinnati.* (**6,** 1946)

Sabin, Florence R., M.D., Sc.D. 1333 E. 10th Ave., Denver 3, Colo. *Member Emeritus, Rockefeller Inst.* (**1R,** 1923)

Sacks, Ernest, M.D. 28 Malborough Rd., North

Haven, Conn. *Prof. Emeritus of Clin. Neurological Surgery, Washington Univ. Med. School.* (**1R**, 1910)

Sacks, Jacob, Ph.D., M.D. Univ. of Arkansas, Dept. of Chemistry, Fayetteville. (**1**, 1948; **3**, 1933)

Sah, Peter P. T., Ph.D. Univ. of Calif., Div. of Pharmacology and Exper. Therapeutics, San Francisco. *Lecturer in Pharmacology.* (**3**, 1941)

Sahyun, Melville, Ph.D. Sahyun Research Lab., 316 Castillo St., Santa Barbara, Calif. *Dir. and Owner.* (**2**, 1932)

Sakami, Warwick, Ph.D. Western Reserve Univ. School of Medicine, 2109 Adelbert Rd., Cleveland 6, Ohio. *Assoc. Prof. of Biochemistry.* (**2**, 1949)

Salk, Jonas E., M.D. Univ. of Pittsburgh School of Medicine, Pittsburgh, Pa. *Research Prof. of Bacteriology.* (**6**, 1947)

Salmon, W. D., A.M. Alabama Polytechnic Inst., Auburn. *Head, Animal Husbandry and Nutrition.* (**2**, 1929; **5**, 1933)

Salomon, Kurt, M.D., Ph.D. Univ. of Rochester, Atomic Energy Project, P. O. Box 287, Station 3, Rochester 20, N. Y. *Section Chief, Dept. of Radiation Chemistry.* (**2**, 1952)

Salvin, Samuel B., Ph.D. U. S. Public Health Service, Rocky Mountain Lab., Hamilton, Mont. *Scientist.* (**6**, 1952)

Sammis, Florence E., M.D. 34 Cathedral Ave., Hempstead, L. I., N. Y. *Physician, Allergy, OPD, New York Hospital.* (**6**, 1943)

Sampson, John J., M.D. 2211 Post St., San Francisco, Calif. (**1**, 1932)

Sampson, Myra M., Ph.D. Smith College, Northampton, Mass. *Prof. of Zoology.* (**5**, 1935)

Samuels, Leo T., Ph.D. Univ. of Utah Med. School, Salt Lake City. *Prof. and Head of Dept. of Biological Chemistry.* (**2**, 1941; **3**, 1937; **5**, 1949)

Sanadi, D. Rao, Ph.D. Univ. of Wisconsin, Enzyme Inst., Madison 6. *Project Assoc.* (**2**, 1952)

Sandels, Margaret R., Ph.D. Florida State Univ., Tallahassee. *Dean of School of Home Economics; Prof. of Nutrition.* (**5**, 1933)

Sandiford, Irene, Ph.D. Billings Hospital, Univ. of Chicago, Chicago, Ill. *Asst. Prof. of Medicine.* (**2**, 1925; **5**, 1933)

Sandow, Alexander, Ph.D. Washington Square College of Arts and Sciences, New York Univ., New York City. *Assoc. Prof. of Biology.* (**1**, 1945)

Sandweiss, David J., M.D. 9739 Dexter Ave., Detroit, Mich. *Instr. in Clin. Medicine, Wayne Univ. College of Medicine; Physician, Harper Hospital (OPD).* (**1**, 1944)

Sanford, Arthur H., M.A., M.D. Clin. Labs., Mayo Clinic, Rochester, Minn. *Head of Div. of Clin. Labs.* (**6R**, 1920)

Santos, Francisco O., Ph.D. Univ. of the Philippines, Los Banos, Laguna. *Prof. and Head of Dept. of Agricultural Chemistry, College of Agriculture.* (**5**, 1936)

Saphir, Otto, M.D. Michael Reese Hospital, 29th St. and Ellis Ave., Chicago 16, Ill. *Pathologist; Clin. Prof. of Pathology, Univ. of Illinois Med. School.* (**4**, 1927)

Saphra, Ivan, M.D. Beth Israel Hospital, New York City. *Assoc. Bacteriologist.* (**6**, 1946)

Sapirstein, Leo Abraham, Ph.D., M.D. Ohio State Univ., Dept. of Physiology, Columbus 10. (**1**, 1950)

Sarett, Herbert P., Ph.D. Mead, Johnson & Co., Research Labs., Evansville 21, Ind. *Chief, Nutritional Research Div.* (**2**, 1946; **5**, 1947)

Sargent, Frederick, II, M.D. 607 S. Elm St., Champaign, Ill. *Asst. Prof. of Physiology, Univ. of Illinois, Urbana.* (**1**, 1952)

Sarnoff, Stanley J., M.D. Harvard School of Public Health, 55 Shattuck St., Boston 15, Mass. *Asst. Prof. of Physiology.* (**1**, 1949)

Sartorius, Otto W., M.D. Syracuse Univ., College of Medicine, Irving Ave., Syracuse, N. Y *Asst. Prof. of Physiology.* (**1**, 1950)

Saslaw, Samuel, Ph.D., M.D. Ohio State Univ., Columbus 10. *Asst. Prof. in Medicine and Bacteriology.* (**6**, 1950)

Saslow, George, Ph.D., M.D. Washington Univ. Med. School, Dept. of Neuropsychiatry, 640 S. Kingshighway, St. Louis, Mo. *Asst. Prof. of Psychiatry; Assoc. Physician to the Student Health Service.* (**1**, 1936)

Satterfield, G. Howard, A.M. Univ. of North Carolina, State College of Agriculture and Engineering, Raleigh. *Prof. of Biochemistry.* (**2**, 1944; **5**, 1941)

Sauberlich, Howerde E., Ph.D. Alabama Polytechnic Inst., Dept. of Animal Husbandry and Nutrition, Auburn. *Prof. and Animal Nutritionist,* (**2**, 1951; **5**, 1952)

Saul, Leon Joseph, M.A., M.D. Room 1907, 255 S. 17th St., Philadelphia 3, Pa. (**1**, 1933)

Sawyer, Charles H., Ph.D. Univ. of California School of Medicine, Dept. of Anatomy, Los Angeles 24. *Prof.* (**1**, 1949)

Sawyer, Margaret E. MacKay, Ph.D. 142 Lower Albert St., Kingston, Ontario, Canada. *Royal Military College.* (**1**, 1935)

Saxton, John A., Jr., M.D. Snodgras Lab. of Pathology and Bacteriology, 1430 Carroll St., St. Louis, Mo. *Asst. Prof. of Pathology, Washington Univ. School of Medicine; Lab. Dir., Hospital Div., City of St. Louis.* (**4**, 1944)

Sayers, George, Ph.D. Univ. of Utah, Salt Lake City 1. *Assoc. Prof. of Pharmacology.* (**1**, 1948; **3**, 1947)

Scantlebury, Ronald E., Ph.D. Natl. Insts. of Health, Div. of Research Grants and Fellowships, Bethesda 14, Md. (**1,** 1948)

Schaefer, Arnold E., Ph.D. Alabama Polytechnic Inst. Lab. of Animal Nutrition, Auburn. *Assoc. Animal Nutritionist.* (**5,** 1950)

Schales, Otto, D.Sc. Ochsner Clinic, Prytania and Aline Sts., New Orleans, La. *Dir. of Chemical Research, Ochsner Foundation; Dir., Biochemical Lab., Ochsner Clinic; Prof. of Biochemistry, Tulane Univ. School of Medicine.* (**2,** 1944)

Schallek, William B., Ph.D. Hoffman-LaRoche, Inc., Nutley 10, N.J. *Physiologist.* (**1,** 1951)

Scharles, Frederick H., M.D. 333 N. Highland Ave., Los Angeles 36, Calif. (**5,** 1935)

Schattenberg, Herbert John, M.S., M.D. Lab. of Clin. Pathology, 220–222 Med. Arts Bldg., San Antonio, Tex. *Director.* (**4,** 1940)

Schayer, Richard W., Ph.D. Northwestern Univ., Rheumatic Fever Research Inst., Chicago 22, Ill. *Research Assoc.* (**2,** 1952)

Scheckmeister, I. L., Ph.D. Washington Univ. School of Medicine, Euclid Ave. and Kingshighway, St. Louis, Mo. *Asst. Prof. of Bacteriology and Immunology.* (**6,** 1951)

Scheer, Bradley T., Ph.D. Univ. of Oregon, Eugene. *Assoc. Prof. of Biology.* (**1,** 1952)

Schenck, Jay R., Ph.D. Abbott Labs., North Chicago, Ill. *Research Biochemist.* (**2,** 1952)

Schenken, John R., M.D. Univ. of Nebraska College of Medicine, Omaha. *Prof. of Pathology and Bacteriology.* (**4,** 1942)

Scherago, Morris, D.V.M. Univ. of Kentucky, Dept. of Bacteriology, Lexington. (**6,** 1948)

Scherp, Henry W., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester 20, N. Y. *Assoc. Prof. of Bacteriology and Immunology.* (**6,** 1940)

Schick, Bela, M.D. 17 E. 84th St., New York City. *Pediatrician, Mt. Sinai and Sea View Hospitals.* (**6,** 1924)

Schiffrin, Milton J., Ph.D. Hoffmann-LaRoche, Inc., Chicago, Ill. *Asst. Dir., Dept. of Clin. Research.* (**1,** 1943)

Schiller, Alfred A., M.D. Univ. of Illinois College of Medicine, Chicago. *Asst. Prof. of Physiology.* (**1,** 1948)

Schiller, Joseph, M.D., Ph.D. c/o M. J. Weinstein, 1369 North Ave., Elizabeth, N. J. (**1,** 1949)

Schlegel, J. U., M.D., Ph.D. Strong Memorial Hospital, 260 Crittenden Blvd., Rochester 20, N. Y. *Asst. Prof. of Urologic Physiology; Dir. of Urological Research Lab.* (**1,** 1951)

Schlenk, Fritz, Ph.D. Science Hall, Iowa State College, Ames. *Prof. of Bacteriology.* (**2,** 1942)

Schlesinger, M. J., Ph.D., M.D. Beth Israel Hospital, 330 Brookline Ave., Boston, Mass. *Dir. of Pathology; Asst. Prof. of Pathology, Harvard Med. School.* (**4,** 1942; **6,** 1921)

Schlomovitz, Benjamin H., M.D. 1210 Majestic Bldg., 231 W. Wisconsin Ave., Milwaukee, Wis. (**1,** 1919)

Schlumberger, Hans G., M.D. Ohio State Univ. School of Medicine, Columbus. *Prof. in Pathology.* (**4,** 1945)

Schmeisser, Harry C., M.D. Univ. of Tennessee, Memphis. *Prof. of Pathology.* (**4,** 1937)

Schmidt, Carl F., M.D. Univ. of Pennsylvania Med. School, Philadelphia. *Prof. of Pharmacology.* (**1,** 1929; **3,** 1924)

Schmidt, C. Robert, Ph.D., M.D. 1027 S. Tejon, Colorado Springs, Colo. (**1,** 1940)

Schmidt, Emil G., Ph.D. Univ. of Maryland School of Medicine, Dept. of Biological Chemistry, Baltimore 18. *Prof.* (**2,** 1951)

Schmidt, Gerhard, M.D. Boston Dispensary, 25 Bennett St., Boston, Mass. *Sr. Research Fellow of Biochemistry, Tufts College Med. School.* (**2,** 1939)

Schmidt, L. H., Ph.D. Christ Hospital Inst. of Med. Research, 2139 Auburn Ave., Cincinnati 19, Ohio. *Dir. of Research; Research Prof. of Biochemistry, Univ. of Cincinnati College of Medicine.* (**2,** 1936; **3,** 1946)

Schmidt-Nielsen, Bodil, D.D.S. Duke Univ., Dept. of Zoology, Durham, N. C. (**1,** 1949)

Schmidt-Nielsen, Knut, Ph.D. Duke Univ., Dept. of Zoology, Durham, N. C. (**1,** 1949)

Schmitt, Francis Otto, Ph.D. Massachusetts Inst. of Technology, Cambridge. *Prof. of Biology.* (**1,** 1930)

Schmitt, Otto H., Ph.D. Univ. of Minnesota, Dept. of Physics, Minneapolis 14. *Assoc. Prof. of Zoology and Physics.* (**1,** 1947)

Schneider, Burch H., Ph.D. State College of Washington, Dept. of Animal Husbandry, Pullman. *Prof.* (**5,** 1952)

Schneider, Charles L., M.D., Ph.D. Wayne Univ. College of Medicine, Dept. of Physiology, Detroit 26, Mich. (**1,** 1949)

Schneider, Edward C., Ph.D. 25 Gordon Place, Middletown, Conn. *Prof. Emeritus of Biology, Wesleyan Univ.* (**1R,** 1912; **2R,** 1912)

Schneider, Howard A., Ph.D. Rockefeller Inst. for Med. Research, 66th Street and York Avenue, New York City 21. *Associate.* (**5,** 1947)

Schneider, John J., Ph.D., M.D. Jefferson Med. College, 1025 Walnut St., Philadelphia 7, Pa. *Asst. Prof. Exper. Medicine.* (**2,** 1950)

Schneider, Walter C., Ph.D. Natl. Cancer Inst., Bethesda 14, Md. *Sr. Biochemist.* (**2,** 1951)

Schneierson, S. Stanley, M.D. Mount Sinai Hospital, 2 East 100th St., New York City 29. *Assoc. Bacteriologist.* (**6,** 1946)

Schoepfle, Gordon M., Ph.D. Washington Univ.

School of Medicine, St. Louis, Mo. *Asst. Prof. of Physiology.* (**1**, 1943)

Scholander, P. F., M.D., Ph.D. Woods Hole Oceanographic Inst., Woods Hole, Mass. (**1**, 1947)

Schradieck, Constant E., M.D. P.O. Box 98, Newton Highlands, Mass. *Retired.* (**6**, 1921)

Schrek, Robert, Veterans Admin. Hospital, Hines, Ill. *Chief, Tumor Research Unit; Asst. Prof. of Pathology, Northwestern Univ., Chicago.* (**4**, 1952)

Schreiner, Oswald, Ph.D. 21 Primrose St., Chevy Chase 15, Md. *Collaborator, U.S.D.A.* (**2**, 1908)

Schroeder, E. F., Ph.D. G. D. Searle & Co., P. O. Box 5110, Chicago 80, Ill. *Research Chemist.* (**2**, 1938)

Schroeder, Henry A., M.D. Dept. of Internal Medicine, Hypertension Div., Washington Univ., 640 S. Kingshighway, St. Louis 10, Mo. (**1**, 1947)

Schubert, Maxwell, Ph.D. New York Univ. College of Medicine, 477 First Ave., New York City 10. *Adjunct Assoc. Prof. of Chemistry.* (**3**, 1947)

Schuck, Cecelia, Ph.D. Purdue Univ., Dept. of Home Economics, Lafayette, Ind. *Prof. of Nutrition.* (**5**, 1941)

Schueler, Fred W., Ph.D. State Univ. of Iowa College of Medicine, Dept. of Pharmacology, Iowa City. *Asst. Prof.* (**3**, 1949)

Schultz, Edwin William, M.D. Stanford Univ., 743 Cooksey Lane, Stanford, Calif. *Prof. of Bacteriology and Exper. Pathology.* (**4**, 1927; **6**, 1928)

Schultz, Fred H., Jr., Ph.D. Commercial Solvents Corp., Terre Haute, Ind. *Dir., Pharmaceutical Research.* (**3**, 1948)

Schultz, W. H., Ph.D. 241 W. Broadway, Long Beach, N. Y. *Prof. Emeritus of Pharmacology, Univ. of Maryland.* (**1R**, 1907; **3R**, 1909)

Schultze, Max O., Ph.D. Univ. of Minnesota, Div. of Agricultural Biochemistry, Univ. Farm, St. Paul 1. *Professor.* (**2**, 1938; **5**, 1952)

Schwartz, Irving L., M.D. Rockefeller Inst. for Med. Research, York Ave. and East 66th St., New York City 21. *Asst.; Asst. Physician to the Hospital.* (**1**, 1952)

Schwartz, Samuel, M.D. Univ. of Minnesota, Dept. of Medicine, Minneapolis 14. *Asst. Prof. of Exper. Medicine.* (**2**, 1952)

Schweigert, B. S., Ph.D. Univ. of Chicago, American Meat Inst. Foundation, 939 E. 57th St., Chicago 37, Ill. *Assoc. Prof. of Biochemistry; Head, Div. of Biochemistry and Nutrition, American Meat Inst.* (**2**, 1949; **5**, 1950)

Schweizer, Malvina, Ph.D. New York Univ., Washington Square College of Arts and Sciences, New York City. *Assoc. Prof. of Biology.* (**1**, 1944)

Schwerma, Henry, Ph.D. 6030 Sheridan Rd., Apt. 1304, Chicago 40, Ill. (**1**, 1948)

Schwert, George W., Ph.D. Duke Univ. School of Medicine, Dept. of Biochemistry, Durham, N. C. *Assoc. Prof.* (**2**, 1949)

Schwimmer, Sigmund, Ph.D. Enzyme Research Lab., 800 Buchanan St., Albany 6, Calif. *Chemist, U. S. Bureau of Agricultural and Industrial Chemistry.* (**2**, 1947)

Scott, Charles Covert, Ph.D., M.D. Chilcott Labs., Morris Plains, N. J. *Dir. of Pharmacology.* (**3**, 1945)

Scott, David Alymer, Ph.D. Connaught Labs., Univ. of Toronto, Toronto 5, Ontario, Canada. *Research Member.* (**2**, 1935)

Scott, Donald, Jr., Ph.D. Univ. of Pennsylvania Med. School, 243 Anatomy Bldg., Philadelphia 4. *Asst. Prof., Dept. of Anatomy; Assoc., Dept. of Neurology.* (**1**, 1950)

Scott, Ernest L., Ph.D. 64 South St., Bogota, N. J. *Assoc. Prof. Emeritus of Physiology, Columbia Univ.* (**1R**, 1914; **2**, 1915)

Scott, James K., M.D. Univ. of Rochester School of Medicine and Dentistry, Atomic Energy Project, Rochester 7, N. Y. *Chief, Pathology Section, AEC; Assoc. in Pathology.* (**4**, 1949)

Scott, John C., Ph.D. Hahnemann Med. College, Philadelphia, Pa. *Prof. and Head of Dept. of Physiology.* (**1**, 1936)

Scott, Milton Leonard, Ph.D. Cornell Univ., Rice Hall, Ithaca, N. Y. *Assoc. Prof. of Animal Nutrition and Poultry Husbandry.* (**2**, 1952)

Scott, R. W., M.A., M.D. City Hospital, Cleveland, Ohio. *Physician in Chief; Prof. of Clin. Medicine, Western Reserve Univ.* (**1**, 1917; **3**, 1917)

Scott, V. Brown, Ph.D., M.D. Inlow Clinic, Shelbyville, Ind. *Internist, Div. of Medicine.* (**1**, 1941)

Scott, W. W., Ph.D., M.D. Brady Urological Inst., Johns Hopkins Hospital, Baltimore 5, Md. (**1**, 1943)

Scrimshaw, Nevin S., Ph.D., M.D. Instituto de Nutricion de Centro America y Panama, Guatemala City, Guatemala, Central America. *Dir. of Div. of Nutrition, Pan American Sanitary Bureau.* (**5**, 1949)

Scudi, John V., Ph.D. Bristol-Myers Products Div., 225 Long Ave., Hillside 5, N. J. *Asst. Vice-Pres.* (**2**, 1942; **3**, 1950; **5**, 1945)

Seager, Lloyd D., M.S., M.D. Univ. of Arkansas Med. School, Little Rock. *Prof. and Head, Dept. of Physiology and Pharmacology.* (**3**, 1939)

Seaman, Gerald R., Ph.D. Univ. of Texas Med. Branch, Galveston. *Asst. Prof. of Physiology.* (**1**, 1952)

Seastone, C. V., Jr., M.D. Univ. of Wisconsin Med. School, Madison. *Prof. and Chairman of Med. Bacteriology.* (**6**, 1939)

Sebrell, W. H., Jr., M.D. Natl. Insts. of Health, Bethesda 14, Md. *Dir.* (**2**, 1938; **5**, 1937)

Seecof, David P., M.D. 1970 Daly Ave., Bronx, New York City. (**4**, 1927)

Seed, John C., M.D. Sterling-Winthrop Research Inst., Rensselaer, N. Y. *Exec. Asst. to Dir.* (**3**, 1952)

Seegal, Beatrice Carrier, M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. Prof. of Bacteriology.* (**4**, 1951; **6**, 1949)

Seegal, David, M.D. Goldwater Memorial Hospital, Columbia (First) Div., Welfare Island, New York City 17. *Dir.* (**6**, 1930)

Seegers, Walter H., Ph.D. Wayne Univ. College of Medicine, 1512 St. Antoine St., Detroit 26, Mich. *Prof. of Physiology.* (**1**, 1947; **2**, 1941)

Seevers, Maurice Harrison, Ph.D., M.D. Univ. of Michigan, Ann Arbor. *Prof. of Pharmacology.* (**1**, 1933; **3**, 1930)

Segaloff, Albert, M.D. Alton Ochsner Med. Foundation, 3503 Prytania St., New Orleans, La. *Dir. of Endocrine Research.* (**4**, 1946)

Seibert, Florence B., Ph.D. Univ. of Pennsylvania, Henry Phipps Inst., 7th and Lombard Sts., Philadelphia. *Assoc. Prof. of Biochemistry.* (**2**, 1925)

Seidell, Atherton, Ph.D. 2301 Connecticut Ave., Washington, D. C. *Special Expert, Natl. Insts. of Health.* (**2**, 1924)

Seifter, Joseph, M.D. Wyeth Inst. of Applied Biochemistry, Philadelphia, Pa. *Director.* (**3**, 1940)

Seifter, Sam, Ph.D. State Univ. of New York Med. Center at New York City, 350 Henry St., Brooklyn 2, N. Y. *Assoc. Prof. of Biochemistry.* (**2**, 1946)

Selkurt, Ewald E., Ph.D. Western Reserve Univ. School of Medicine, Cleveland 6, Ohio. *Assoc. Prof. of Physiology.* (**1**, 1945)

Selle, Wilber Arthur, Ph.D. Univ. of California at Los Angeles Med. School, Los Angeles. *Prof. and Head, Dept. of Biophysics.* (**1**, 1938)

Sellers, E. A., M.D., Ph.D. Univ. of Toronto, Dept. of Physiology, Toronto, Ontario, Canada. *Prof. of Physiology; Assoc. Prof. in Banting and Best Dept. of Med. Research.* (**1**, 1947)

Selye, Hans, M.D., Ph.D. Inst. of Exper. Medicine and Surgery, Univ. of Montreal, Montreal, Quebec, Canada. *Prof. and Dir.* (**1**, 1934)

Sendroy, Julius, Jr., Ph.D. Naval Med. Research Inst., Natl. Naval Med. Center, Bethesda 14, Md. *Chief Chemist.* (**2**, 1928)

Sevag, M. G., Ph.D. Univ. of Pennsylvania School of Medicine, Microbiology Dept., Philadelphia 4. *Assoc. Prof.* (**2**, 1949; **6**, 1941)

Sevringhaus, Elmer L., M.A., M.D. Hoffmann-La Roche, Inc., Nutley 10, N. J. *Dir. of Clin. Research; Clin. Prof. of Medicine, New York Med. College.* (**2**, 1923; **5**, 1939)

Shaffer, C. Boyd, Ph.D. American Cyanamid Co., 30 Rockefeller Plaza, New York City 20. *Chief Industrial Toxicologist.* (**3**, 1950)

Shaffer, Morris F., Ph.D. Tulane Univ. School of Medicine, Dept. of Microbiology, New Orleans, La. *Professor.* (**4**, 1939; **6**, 1937)

Shaffer, Philip A., Ph.D. Washington Univ. Med. School, St. Louis 10, Mo. *Distinguished Service Prof. of Biological Chemistry Emeritus.* (**2**, 1906)

Shanes, Abraham M., Ph.D. Natl. Insts. of Health, Exper. Biology and Medicine Inst., Bethesda 14, Md. (**1**, 1946)

Shank, Robert E., M.D. Washington Univ. School of Medicine, St. Louis 10, Mo. *Prof. of Preventive Medicine.* (**2**, 1947)

Shannon, James A., Ph.D., M.D. Natl. Insts. of Health, Natl. Heart Inst., Bethesda 14, Md. *Assoc. Dir. in Charge of Research.* (**1**, 1933; **3**, 1945)

Shapiro, Herbert, Ph.D. Henry Phipps Inst., 7th and Lombard Sts., Philadelphia 47, Pa. *Research Assoc.* (**1**, 1937)

Sharpless, George R., Sc.D. Lederle Labs., Pearl River, N. Y. *Research Biochemist.* (**5**, 1942)

Shaw, J. C., Ph.D. Univ. of Maryland, Dept. of Dairy Husbandry, College Park. *Professor.* (**1**, 1947)

Shaw, James H., Ph.D. Harvard School of Dental Medicine, Boston, Mass. *Assoc. in Nutrition.* (**5**, 1948)

Shaw, Myrtle, Ph.D. 11 S. Lake Ave., Albany, N. Y. *Sr. Bacteriologist, Div. of Labs. and Research, N. Y. State Dept. of Health.* (**6**, 1937)

Shay, Harry, M.D. Temple Univ. School of Medicine, Philadelphia, Pa. *Dir. of Fels Research Inst. and Clin. Prof. of Medicine.* (**1**, 1944)

Shear, M. J., Ph.D. Natl. Insts. of Health, Bethesda 14, Md. *Chief, Lab. of Chemical Pharmacology.* (**2**, 1930)

Sheard, Charles, Ph.D. Mayo Foundation, Rochester, Minn. *Chief of Div. of Physics and Biophysical Research; Prof. of Physiological Optics and Biophysics, Univ. of Minnesota.* (**1**, 1925)

Sheehan, Donal, M.D., D.Sc. New York Univ.-Bellevue Med. Center, 477 First Ave., New York City. (**1**, 1938)

Shelesnyak, M. C., Ph.D. Weizmann Inst. of Science, Dept. of Exper. Biology, Rehovoth, Israel. *Sr. Scientist.* (**1**, 1948)

Shelley, Walter B., Ph.D., M.D. Univ. of Pennsylvania School of Medicine, Philadelphia. *Asst. Prof. of Dermatology and Syphilology.* (**1**, 1946)

Shemin, David, Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. Prof. of Biochemistry.* (**2**, 1944)

Shepard, Charles C., M.D. U. S. Public Health

Service, Rocky Mountain Lab., Hamilton, Mont. *Sr. Surgeon.* (**6**, 1951)

Sheppard, C. W., Ph.D. Oak Ridge Natl. Lab., Biology Div., Oak Ridge, Tenn. *Physicist.* (**1**, 1950)

Sheppard, Fay, M.S. Univ. of Oklahoma Med. School, Oklahoma City. *Instr. in Biochemistry.* (**2**, 1936)

Sherman, F. G., Ph.D. Brown Univ., Dept. of Biology, Providence 12, R. I. *Asst. Prof.* (**1**, 1950)

Sherman, Henry C., Ph.D. % Mrs. O. E. Lanford, Elmbrook Farm, Castleton-on-Hudson, Route 1, N. Y. (**1R**, 1923; **2**, 1906; **5R**, 1933)

Sherman, William C., Ph.D. Ralston Purina Co., St. Louis, Mo. *Head of Biological Labs.* (**5**, 1949)

Sherrod, Theodore R., Ph.D., M.D. Univ. of Illinois, College of Medicine, 1853 West Polk St., Chicago 12. *Asst. Prof. of Pharmacology.* (**3**, 1952)

Sherwin, Carl Paxson, Sc.D., M.D., Dr. P.H. Whippleville, N. Y. *Consultant, Med. Dept., Hyde Memorial Hospital, Malone, N. Y.* (**2**, 1917)

Sherwood, Noble P., Ph.D., M.D. Univ. of Kansas, 517 Snow Hall, Lawrence. *Prof. of Bacteriology.* (**6**, 1928)

Sherwood, Thomas Cecil, Ph.D., M.D. 5538 Prytania, New Orleans, La. *Staff Member, Internal Medicine, Southern Baptist Hospital.* (**1**, 1938)

Shettles, Landrum B., Ph.D., M.D. Columbia Univ., College of Physicians and Surgeons, Box 330, 622 W. 168th St., New York City. (**1**, 1946)

Shideman, Frederick E., Ph.D., M.D. Univ. of Michigan, Dept. of Pharmacology, Ann Arbor. *Assoc. Prof.* (**3**, 1944)

Shils, Maurice E., Sc.D. 600 W. 168th St., New York City 32. *Asst. Prof. of Nutrition, School of Public Health, Columbia Univ.* (**5**, 1950)

Shimkin, Michael Boris, M.D. Univ. of California Med. School, San Francisco. *Dir., Lab. of Exper. Oncology, Laguna Honda Home.* (**4**, 1940)

Shinowara, George Y., Ph.D. Ohio State Univ. College of Medicine, Columbus. *Prof., Dept. of Pathology; Dir., Chemical Pathological Labs., Univ. Hospital.* (**2**, 1949)

Shipley, Reginald A., M.D. Veterans Admin. Hospital, 7300 York Rd., Cleveland 29, Ohio. *Dir., Radioisotope Unit.* (**1**, 1945)

Shipley, Robert E., M.D. Lilly Lab. for Clin. Research, Indianapolis City Hospital, Indianapolis, Ind. (**1**, 1945)

Shive, William, Ph.D. Univ. of Texas, Austin. *Assoc. Prof. of Chemistry.* (**2**, 1948)

Shlaer, Simon, Ph.D. Box 1663, Los Alamos, N. M. (**1**, 1938)

Shock, Nathan W., Ph.D. Baltimore City Hospitals, Baltimore 24, Md. *Chief, Section on Gerontology, USPHS, Natl. Insts. of Health, Bethesda, Md.* (**1**, 1942)

Shoemaker, Harold A., Ph.D. Univ. of Oklahoma School of Medicine, 801 N. E. 13th St., Oklahoma City. *Prof. of Pharmacology.* (**3**, 1941)

Shope, Richard E., M.D. Ridge Road, Kingston, N. J. *Merck Inst. for Therapeutic Research.* (**4**, 1934)

Shorr, Ephraim, M.D. New York Hospital, 525 E. 68th St., New York City. *Asst. Attending Physician; Asst. Prof. of Medicine, Cornell Univ. Med. College.* (**1**, 1931; **3**, 1942)

Shrigley, E. W., Ph.D., M.D. Indiana Univ. Med. Center, Dept. of Microbiology, 1040–1232 W. Michigan St., Indianapolis 7. (**6**, 1946)

Shwartzman, Gregory, M.D. 230 E. 50th St., New York City. *Head of Dept. of Bacteriology, Mount Sinai Hospital; Prof. of Bacteriology, Columbia Univ.* (**4**, 1929; **6**, 1930)

Sichel, F. J. M., Ph.D. Univ. of Vermont College of Medicine, Burlington. *Prof. and Chairman of Dept. of Physiology and Biophysics.* (**1**, 1939)

Sickles, Grace M., B.A. 2201 Twelfth St., Troy, N. Y. *Assoc. Bacteriologist, Div. of Labs. and Research, New York State Dept. of Health.* (**6**, 1932)

Sickles, Gretchen R., A.B. New York State Dept. of Health, Div. of Labs. and Research, Albany, N. Y. *Asst. Bacteriologist.* (**6**, 1937)

Siebenmann, Charles O., D.Eng. Connaught Med. Research Labs., Univ. of Toronto, Toronto 5, Ontario, Canada. *Research Assoc.; Assoc. in Hygiene and Preventive Medicine.* (**3**, 1946)

Siebens, Arthur A., M.D. State Univ. of New York Med. Center at New York, Dept. of Physiology and Pharmacology, Brooklyn 2. *Assoc. Prof.* (**1**, 1952)

Siebert, Walter J., M.D. Lutheran Hospital, St. Louis, Mo. *Dir. of Labs.; Pathologist; Asst. Prof., Washington Univ.* (**4**, 1932)

Siegmund, Otto Hanns, D.V.M. Merck and Co., Inc., Veterinary Research Dept., Rahway, N. J. *Veterinarian.* (**3**, 1950)

Sigel, M. Michael, Ph.D. Children's Hospital, 1740 Bainbridge St., Philadelphia 46, Pa. *Assoc. in Virology, Univ. of Pennsylvania.* (**6**, 1950)

Silber, Robert H., Ph.D. Merck Inst., Rahway, N. J. *Head, Dept. of Biochemistry.* (**2**, 1948)

Silberberg, Martin, M.D. 18 S. Kingshighway, St. Louis 8, Mo. *Asst. Prof. of Pathology, Washington Univ. School of Medicine; Pathologist, Hospital Div., City of St. Louis.* (**4**, 1944)

Silberberg, Ruth, M.D. Snodgras Lab., 1430 Carroll St., St. Louis 4, Mo. *Asst. Prof. of Pathology, Washington Univ. School of Medicine, Pathologist, Hospital Div., City of St. Louis.* (**4**, 1944)

Silverman, Milton, Ph.D. Natl. Insts. of Health, Bethesda 14, Md. *Scientist, Exper. Biology and Medicine Inst.* (**2**, 1950)

Silvette, Herbert, Ph.D. "Low Gear," Stanardsville, Va. *Research Assoc., Allergy Div., Univ. of Virginia School of Medicine.* (**1,** 1933; **3,** 1940)

Simmonds, Sofia, Ph.D. Yale Univ., School of Medicine, Dept. of Physiological Chemistry, New Haven 11, Conn. (**2,** 1948)

Simonds, James P., Ph.D., M.D. 1200 Belden Ave., Chicago 45, Ill. *Prof. Emeritus of Pathology, Northwestern Univ. Med. School.* (**4,** prior to 1920)

Simonsen, Daisy G., Ph.D. Los Angeles County Hospital, 1200 N. State St., Los Angeles 33, Calif. *Chemist and Toxicologist; Instr. in Pathology, Univ. of Southern California Med. School.* (**2,** 1949)

Simonson, Ernst, M.D. Univ. of Minnesota, Lab. of Physiological Hygiene, Stadium South Tower, Minneapolis 14. *Assoc. Prof. of Physiology.* (**1,** 1941)

Simpson, Miriam E., Ph.D., M.D. Univ. of California, Berkeley. *Prof. of Anatomy.* (**1,** 1946)

Singal, Sam A., Ph.D. Med. College of Georgia, Augusta. *Assoc. Prof. of Biochemistry.* (**2,** 1948)

Singer, Thomas P., Ph.D. Levi Memorial Hospital, Dept. of Pure Research, Hot Springs, Ark. *Sr. Member.* (**2,** 1948)

Sirota, Jonas H., M.D. Mt. Sinai Hospital, New York City 29. *Research Assoc.* (**1,** 1951)

Sizer, Irwin W., Ph.D. Massachusetts Inst. of Technology, Cambridge. *Assoc. Prof. of Physiology.* (**1,** 1944)

Skinner, John Taylor, Ph.D. The Grapette Co., Camden, Ark. *Chief Chemist.* (**2,** 1946)

Slater, Irwin H., M.D. Strong Memorial Hospital, Rochester 20, N.Y. *Asst. Prof. of Pharmacology.* (**3,** 1951)

Slonaker, James R., Ph.D. 334 Kingsley Ave., Palo Alto, Calif. *Prof. of Physiology, Leland Stanford Jr. Univ.* (**1R,** 1917)

Smadel, Joseph Edwin, M.D. Army Med. Service Grad. School, Washington 12, D. C. *Chief, Dept. of Virus and Rickettsial Diseases.* (**4,** 1940; **6,** 1937)

Small, James C., M.D. 101 S. 39th St., Philadelphia, Pa. *Assoc. in Medicine, Univ. of Pennsylvania Grad. School of Medicine.* (**4,** 1927)

Smetana, Hans F., M.D. Armed Forces Inst. of Pathology, 7th St. and Independence Ave., Washington 25, D. C. *Chief, Div. of Pathology.* (**4,** 1934)

Smith, Arthur H., Ph.D. Wayne Univ. College of Medicine, Detroit 26, Mich. *Prof. of Physiological Chemistry.* (**2,** 1921; **5,** 1933)

Smith, Austin Edward, M.D. American Med. Assoc., 535 N. Dearborn St., Chicago, Ill. *Editor, J.A.M.A.* (**3,** 1942)

Smith, Carl C., Ph.D. Christ Hospital, Inst. of Med. Research, Cincinnati 19, Ohio. *Research Assoc. in Pharmacology.* (**3,** 1951)

Smith, Clarence A., Ph.D. Standard Brands, Inc., 595 Madison Ave., New York City. *Technical Dir., Agricultural Dept.* (**1,** 1921)

Smith, David T., M.D. Duke Hospital, Durham, N. C. *Prof. of Bacteriology and Assoc. Prof. of Medicine.* (**5,** 1943; **6,** 1949)

Smith, Dietrich Conrad, Ph.D. Univ. of Maryland School of Medicine, Lombard and Greene Sts., Baltimore. *Prof. of Physiology.* (**1,** 1937)

Smith, Douglas E., Ph.D. Argonne Natl. Lab., P. O. Box 5207, Chicago 80, Ill. (**1,** 1947)

Smith, Durwood James, M.D. Univ. of Rochester School of Medicine and Dentistry, Rochester 20, N. Y. *Instr. in Medicine and Physiology.* (**1,** 1952)

Smith, Edwin L., Ph.D. Univ. of Texas Dental School, Houston. *Prof. of Physiology.* (**1,** 1948)

Smith, Elinor Van Dorn, Ph.D. 5 Middle St., Hadley, Mass. *Assoc. Prof. of Bacteriology, Smith College.* (**6,** 1940)

Smith, Elizabeth R. B., Ph.D. Army Med. Service Grad. School, Walter Reed Army Med. Center, Washington 12, D. C. *Biochemist, Cardio-Respiratory Diseases.* (**2,** 1938)

Smith, Emil L., Ph.D. Univ. of Utah School of Medicine, Salt Lake City 1. *Prof. of Biochemistry; Research Prof. of Medicine.* (**2,** 1946)

Smith, Erma A., Ph.D., M.D. Veterans Admin. Hospital, Dublin, Ga. (**1,** 1928)

Smith, Falconer, Ph.D. 6020 Tilden Lane, Rockville, Md. *Scientist (officer), USPHS; Research in Radiobiology.* (**1,** 1950)

Smith, George H., Ph.D. Yale Univ. School of Medicine, New Haven, Conn. *Prof. of Immunology and Asst. Dean; Chairman of Dept. of Bacteriology, Yale Univ.* (**6,** 1918)

Smith, H. P., M.S., M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Delafield Prof. of Pathology.* (**1,** 1937; **4,** 1925)

Smith, Homer W., Sc.D. New York Univ., Bellevue Med. Center, 477 First Ave., New York City. *Prof. of Physiology.* (**1,** 1923; **2,** 1930)

Smith, Janice M., Ph.D. Univ. of Illinois, Dept. of Home Economics, Urbana. *Prof. and Head of Dept.* (**5,** 1947)

Smith, Jay A., Ph.D. Chicago Med. School, Dept. of Physiology, 710 S. Wolcott Ave., Chicago 12, Ill. *Asst. Prof.* (**1,** 1951)

Smith, John R., A.M., M.D. Washington Univ. School of Medicine, St. Louis 10, Mo. *Asst. Prof. of Medicine.* (**1,** 1947)

Smith, Lawrence Weld, M.D. 119 E. 26th St., New York City 10. (**4,** 1927)

Smith, Lee Irvin, Ph.D. Univ. of Minnesota School of Chemistry, Minneapolis 14. *Prof. and Chief of Div. of Organic Chemistry.* (**2,** 1942)

Smith, Margaret Cammack, Ph.D. El Encanto Estates, Tucson, Ariz. (**5,** 1933)

Smith, Paul K., Ph.D. George Washington Univ.

School of Medicine, 1335 H St., N.W., Washington 5, D. C. *Prof. of Pharmacology and Exec. Officer of Dept.* (**2**, 1937; **3**, 1937)

Smith, Paul W., Ph.D. Univ. of Oklahoma School of Medicine, 801 N. E. 13th St., Oklahoma City. *Prof. of Pharmacology.* (**1**, 1933; **3**, 1951)

Smith, Philip Edward, Ph.D. Columbia Univ., 630 W. 168th St., New York City 32. *Prof. of Anatomy.* (**1R**, 1923)

Smith, Ralph G., M.D., Ph.D. Federal Security Agency, Food and Drug Admin., Washington 25, D. C. *Med. Officer; Chief of New Drug Section.* (**3**, 1929)

Smith, R. Blackwell, Jr., Ph.D. Med. College of Virginia, Richmond 19. *Assoc. Prof. of Pharmacology.* (**3**, 1944)

Smith, Sedgwick E., Ph.D. Cornell Univ., Dept. of Animal Husbandry, Ithaca, N. Y. *Animal Physiologist.* (**5**, 1945)

Smith, Susan Gower, M.A. Duke Univ., Durham, N. C. *Assoc. in Dept. of Medicine and Nutrition, School of Medicine.* (**5**, 1939)

Smith, Sybil L., A. M. 1421 44th St., N. W., Washington, D. C. (**5**, 1940)

Smith, Wilbur Kenneth, M.D. Univ. of Rochester School of Medicine and Dentistry, Rochester, N. Y. *Assoc. Prof. of Anatomy.* (**1**, 1939)

Smith, Willie W., Ph.D. Natl. Insts. of Health, Bethesda, Md. *Physiologist.* (**1**, 1941)

Smithburn, Kenneth C., M.D. Internatl. Health Div. Labs., 66th St. and York Ave., New York City 21. *Staff Member, International Health Div.* (**6**, 1937)

Smolens, Joseph, B.S. Children's Hospital, 1740 Bainbridge St., Philadelphia, Pa. (**6**, 1943)

Smythe, C. V., Ph.D. 5000 Richmond St., Philadelphia, Pa. *Head of Biochemistry, Rohm & Haas Co.* (**2**, 1934)

Snape, William J., M.D. Jefferson Med. College, Philadelphia, Pa. *Assoc. in Physiology.* (**1**, 1948)

Snell, Albert M., M.D. Palo Alto Clinic, 300 Homer St., Palo Alto, Calif. (**4**, 1930)

Snell, Esmond E., Ph.D. Univ. of Texas, Dept. of Chemistry, Austin 12. *Prof.* (**2**, 1942; **5**, 1946)

Snider, Ray S., Ph.D. Northwestern Univ. School of Medicine, 303 E. Chicago Ave., Chicago 11, Ill. *Assoc. Prof. of Anatomy.* (**1**, 1949)

Snyder, Charles D., Ph.D. 4709 Keswick Rd., Baltimore, Md. *Prof. Emeritus of Exper. Physiology, Johns Hopkins Univ.* (**1R**, 1907)

Snyder, Franklin Faust, M.D. Boston Lying-In Hospital, Boston, Mass. (**1**, 1936)

Snyder, John Crayton, M.D. Harvard School of Public Health, 695 Huntington Ave., Boston, Mass. *Prof. of Microbiology.* (**6**, 1950)

Sobel, Albert E., Ph.D. Jewish Hospital of Brooklyn, 555 Prospect Pl., Brooklyn 16, N. Y. *Head of Dept. of Biochemistry; Adjunct Prof. of Chemistry, Polytechnic Inst. of Brooklyn; Special Lecturer, N. Y. State Univ. College of Medicine.* (**2**, 1939)

Sober, Herbert A., Ph.D. Natl. Insts. of Health, Natl. Cancer Inst., Bethesda 14, Md. *Scientist.* (**2**, 1951)

Sobin, Sidney S., M.D., Ph.D. 416 N. Bedford Drive, Beverly Hills, Calif. *Research Assoc. in Physiology, Univ. of Southern California.* (**1**, 1949)

Sobotka, Harry, Ph.D. Mount Sinai Hospital, Fifth Ave. and 100th St., New York City 29. *Head of Dept. of Chemistry.* (**2**, 1932; **5**, 1933)

Solandt, Donald Young, M.D., Ph.D. Univ. of Toronto, Toronto, Ontario, Canada. *Prof. of Physiology in charge of Biophysics, Faculty of Medicine; Prof. and Head of Dept. of Hygiene, School of Hygiene.* (**1**, 1937)

Sollmann, Torald, M.D. 14327 Superior Rd., Cleveland, Ohio. *Dean and Prof. Emeritus of Pharmacology, Western Reserve Univ.* (**1R**, 1902; **2**, 1906; **3R**, 1908)

Solomon, A. K., Ph.D. Harvard Med. School, Biophysical Lab., Boston, Mass. *Asst. Prof. of Physiological Chemistry.* (**1**, 1952)

Solotorovsky, Morris, Ph.D. 111 Rockview Ave., North Plainfield, N. J. *Merck Inst. for Therapeutic Research, Rahway, N. J.; Research Assoc. in Chemotherapy.* (**6**, 1946)

Somogyi, Michael, Ph.D. 216 S. Kingshighway, St. Louis, Mo. *Biochemist, Jewish Hospital of St. Louis.* (**2**, 1927)

Sonnenschein, Ralph R., M.D., Ph.D. Univ. of California School of Medicine, Los Angeles 24. *Asst. Prof. of Physiology.* (**1**, 1950)

Soskin, Samuel, M.D., Ph.D. Michael Reese Hospital, 29th St. and Ellis Ave., Chicago 16, Ill. *Med. Dir. and Dir. of Research Inst.; Dean, Postgrad. School.* (**1**, 1930; **5**, 1933)

Spain, Will C., M.D. 116 E. 53rd St., New York City. *Clin. Prof. of Medicine, Post-Grad. Med. School, Columbia Univ.* (**6**, 1923)

Spaulding, Earle H., Ph.D. Temple Univ., School of Medicine, Broad St. at Ontario, Philadelphia 40, Pa. *Prof. of Bacteriology; Head of Dept.* (**6**, 1950)

Spealman, C. R., Ph.D. Dept. of Commerce, Civil Aeronautics Admin., Washington 25, D. C. (**1**, 1940)

Specht, Heinz, Ph.D. Natl. Insts. of Health, Bethesda, Md. *Scientist, USPHS* (**1**, 1941)

Spector, Harry, Ph.D. Quartermaster Food and Container Inst. for the Armed Forces, 1849 W. Pershing Rd., Chicago 9, Ill. *Chief, Nutrition Div.* (**5**, 1950)

Speirs, Mary, Ph.D. Georgia Agricultural Exper. Station, Experiment. *Head of Dept. of Home Economics.* (**5**, 1949)

Spencer, Joseph N., Ph.D. Commercial Solvents

Corp., 1331 S. First St., Terre Haute, Ind. *Pharmacologist.* (**3,** 1951)

Sperry, Roger W., Ph.D. Univ. of Chicago, Dept. of Anatomy, Chicago 37, Ill. (**1,** 1945)

Sperry, Warren M., Ph.D. New York State Psychiatric Inst., 722 W. 168th St., New York City 32. *Principal Research Scientist (Biochemistry); Assoc. Prof. of Biological Chemistry, Columbia Univ.* (**2,** 1929)

Spicer, Samuel S., M.D. Natl. Insts. of Health, Bethesda 14, Md. *Commissioned Officer, USPHS, Surgeon.* (**1,** 1950)

Spiegel, Ernest A., M.D. Temple Univ. School of Medicine, Broad and Ontario Sts., Philadelphia, Pa. *Prof. of Exper. Neurology.* (**1,** 1936)

Spiegel-Adolf, Mona, M.D. Temple Univ. School of Medicine, Broad and Ontario Sts., Philadelphia, Pa. *Prof. and Head of Dept. of Colloid Chemistry.* (**2,** 1933)

Spiegelman, Sol, Ph.D. Univ. of Illinois, Dept. of Bacteriology, Urbana. (**1,** 1946)

Spies, Tom D., M.D. Hillman Hospital, Birmingham, Ala. *Dir. of Nutrition Clinic.* (**3,** 1941; **4,** 1940; **5,** 1938)

Spink, Wesley W , M.D. Univ. of Minnesota Hospital, Minneapolis. *Assoc. Prof. of Medicine, Univ. of Minnesota Med. School.* (**6,** 1940)

Spohn, Adelaide, Ph.D. Elizabeth McCormick Memorial Fund, 1415 E. 57th St., Chicago 37, Ill. *Nutritionist.* (**5,** 1933)

Spoor, Herbert J., Ph.D., M.D. 116 Parsons Blvd., Malba, L. I., N. Y. *Dir., Dermatological Research, New York Med. College.* (**1,** 1945)

Sprinson, David B., Ph.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Biochemistry, 630 W. 168th St., New York City 32. *Asst. Prof.* (**2,** 1949)

Sproul, Edith E., M.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Pathology, 630 W. 168th St., New York City 32. *Assoc. Prof.* (**4,** 1941)

Sprunt, Douglas H., M.D., M.S. Univ. of Tennessee, Memphis. *Prof. of Pathology; Head of Dept. of Pathology and Bacteriology.* (**4,** 1934, **6,** 1936)

Stacy, Ralph W., Ph.D. Ohio State Univ., Dept. of Physiology, Hamilton Hall, Columbus 10. *Asst. Prof.* (**1,** 1949)

Stadie, William C., M.D. 821 Maloney Clinic, 36th and Spruce Sts., Philadelphia 4, Pa. *John Herr Musser Prof. of Research Medicine, Univ. of Pennsylvania.* (**2,** 1922)

Stadtman, Earl R., Ph.D. Natl. Insts. of Health, Natl. Heart Inst., Bethesda 14, Md. *Biochemist.* (**2,** 1951)

Stahmann, Mark A., Ph.D. Univ. of Wisconsin, Dept. of Biochemistry, Madison 6. *Assoc. Prof.* (**2,** 1951)

Stamler, Jeremiah, M.D. Michael Reese Hospital, Med. Research Inst., Cardiovascular Dept., Chicago, Ill. *Research Assoc.* (**1,** 1951)

Stanley, Wendell M., Ph.D. Univ. of California, Biochemistry and Virus Lab., Berkeley 4. *Prof. and Chairman of Dept. of Biochemistry; Dir. of Lab.* (**2,** 1936)

Stannard, James Newell, Ph.D. Univ. of Rochester Med. School, Atomic Energy Project, Rochester 7, N. Y. *Assoc. Prof. of Radiation Biology.* (**1,** 1938)

Stansly, Philip G., Ph.D. Univ. of Wisconsin, Inst. for Enzyme Research, Madison 6, Wis. (**2,** 1950)

Stare, Fredrick J., Ph.D., M.D. 695 Huntington Ave., Boston 15, Mass. *Prof. of Nutrition, Harvard Univ.* (**2,** 1937; **5,** 1942)

Starr, Isaac, M.D. Hospital of the Univ. of Pennsylvania, Philadelphia. *Hartzell Prof. of Research Therapeutics.* (**1,** 1929; **3,** 1942)

Stavely, Homer E., Ph.D. Commercial Solvents Corp., Pharmaceutical Research Div., Terre Haute, Ind. *Head, Chemistry Dept.* (**2,** 1952)

Stavitsky, Abram B., Ph.D., V.M.D. Western Reserve Univ. School of Medicine, 2109 Adelbert Rd., Cleveland 6, Ohio. *Asst. Prof. of Microbiology.* (**6,** 1950)

Stavraky, George W., M.D. Univ. of Western Ontario, Med. School, London, Ontario, Canada. *Prof. of Physiology.* (**1,** 1937; **3,** 1944)

Stead, Eugene A., Jr., M.D. Duke Univ., Dept. of Medicine, Durham, N. C. (**1,** 1945)

Stearns, Genevieve, Ph.D. State Univ. of Iowa, College of Medicine, Iowa City. *Research Prof. of Pediatrics.* (**2,** 1932; **5,** 1937)

Stebbins, Robert B., Ph.D. Merck Inst. for Therapeutic Research, Rahway, N. J. *Research Assoc., Pathology.* (**4,** 1951)

Steele, J. Murray, M.D. Third (N.Y.U.) Research Div., Goldwater Memorial Hospital, Welfare Island, New York City. *Assoc. Prof. of Medicine, New York Univ.; Dir. of 3rd Med. Div., Welfare Hospital.* (**1,** 1936)

Steele, Robert, Ph.D. Brookhaven Natl. Lab., Biology Dept., Upton, L. I., N. Y. *Biochemist.* (**2,** 1952)

Steenbock, Harry, Ph.D. Univ. of Wisconsin, Madison. *Prof. of Biochemistry.* (**2,** 1912; **5,** 1933)

Stefanini, Mario, M.D., D.T.M.&H. New England Center Hosp., Boston, Mass. *Physician; Assoc. Prof. of Medicine, Tufts Med. School.* (**1,** 1952)

Steffee, C. Harold, M.D., Ph.D. Natl. Cancer Inst., Pathology Section, Bethesda 14, Md. *Pathologist.* (**4,** 1950)

Steggerda, F. R., Ph.D. Univ. of Illinois, 416 Natural History Bldg., Urbana. *Assoc. Prof. of Physiology.* (**1,** 1934)

Stehle, Raymond Louis, Ph.D. McGill Univ., Faculty of Medicine, Montreal, Quebec, Canada. *Prof. of Pharmacology.* (**2,** 1920; **3,** 1922)

Steigman, Alex J., M.S., M.D. Louisville General Hospital, E. Chestnut St., Louisville 21, Ky. *Prof. of Child Health, Univ. of Louisville School of Medicine.* (**6,** 1949)

Steigmann, Frederick, M.S., M.D. 348 S. Hamlin Ave., Chicago, Ill. *Assoc. in Medicine, Univ. of Illinois, College of Medicine; Assoc. Attending Physician, Cook County Hospital.* (**3,** 1942)

Steiman, S. E., Ph.D., M.D. 23 Broad St., Lynn, Mass. *Asst. Physician, Metropolitan State Hospital, Waltham, Mass.* (**1,** 1939)

Stein, George J., Ph.D. 406th Med. General Lab. APO 500 %P. M., San Francisco, Calif. *Chief, Section of Bacteriology and Serology.* (**6,** 1947)

Stein, William Howard, Ph.D. Rockefeller Inst. for Med. Research, 66th and York Ave., New York City 21. *Member, Biochemistry Dept.* (**2,** 1946)

Steinbach, H. Burr, Ph.D. Univ. of Minnesota, Dept. of Zoology, Minneapolis. (**1,** 1934)

Steinberg, Bernhard, M.D. Toledo Hospital Inst. of Med. Research, Toledo, Ohio. *Dir. of Toledo Hospital Inst.; Chief Pathologist and Dir. of Labs., Toledo Hospital.* (**4,** 1928; **6,** 1946)

Steiner, Paul E., M.D., Ph.D. Univ. of Chicago, Chicago, Ill. *Prof. of Pathology.* (**4,** 1939)

Steinhardt, Jacinto, Ph.D. 4004 Laird Pl., Chevy Chase 15, Md. *Dir., Operations Evaluation Group, Mass. Inst. of Technology.* (**2,** 1939)

Steinhaus, Arthur H., Ph.D. 5315 Drexel Ave., Chicago, Ill. *Prof. of Physiology, George Williams College, Hyde Park.* (**1,** 1928)

Steinhaus, John E., M.D., Ph.D. Univ. of Wisconsin School of Medicine, Dept. of Pharmacology, Madison 6. *Assoc. Prof.* (**3,** 1951)

Stekol, Jakob A., D.Sc. Inst. for Cancer Research, Philadelphia 11, Pa. *Head, Dept. of Physiological Chemistry and Nutrition.* (**2,** 1936; **5,** 1952)

Stepto, Robert C., Army Med. Nutrition Lab., 1849 W. Pershing Rd., Chicago 9, Ill. *Capt. (MC); Research Assoc. and Exper. Pathologist, Div. of Pathology (on military leave from Univ. of Chicago).* (**4,** 1952)

Stern, Joseph R., M.D. New York Univ., College of Medicine, 477 First Ave., New York City 16. *Instr. in Pharmacology.* (**2,** 1952)

Stern, Kurt G., Ph.D. Polytechnic Inst. of Brooklyn, 99 Livingston St., Brooklyn 2, N. Y. *Adjunct Prof. of Biochemistry.* (**2,** 1938)

Stetten, DeWitt, Jr., M.D., Ph.D. Public Health Research Inst. of The City of New York, Inc., Foot of E. 15th St., New York City 9. *Chief, Div. of Nutrition and Physiology.* (**2,** 1944)

Stetten, Marjorie R., Ph.D. Public Health Research Inst. of The City of New York, Inc., Foot of E. 15th St., New York City 9. *Assoc., Div. of Nutrition and Physiology.* (**2,** 1947)

Stevens, Carl M., Ph.D. State College of Washington, Dept. of Chemistry, Pullman. *Prof. of Biochemistry.* (**2,** 1951)

Stevens, S. Smith, Ph.D. Harvard Univ., Memorial Hall, Cambridge, Mass. *Prof. of Psychology; Dir. of Psychological Labs.* (**1,** 1937)

Stevenson, James A. F., M.A., M.D.C.M. Univ. of Western Ontario, Dept. of Med. Research, London, Ontario, Canada. *Assoc. Prof.; Lecturer in Physiology.* (**1,** 1950)

Stewart, Dorothy R., Ph.D. Rockford College, Rockford, Ill. (**1,** 1947)

Stewart, Fred W., M.D. Memorial Hospital, 444 E. 68th St., New York City. *Pathologist; Prof. of Pathology, Cornell Med. School.* (**4,** 1928)

Stewart, Harold L., M.D. Natl. Cancer Inst., Bethesda, Md. *Chief of Pathology Section.* (**4,** 1936)

Stewart, Wellington B., M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Asst. Prof. of Pathology.* (**4,** 1950)

Stewart, Winifred Bayard, M.D., M.A. 1930 Spruce St., Philadelphia, Pa. *Prof. of Neurology, Woman's Med. College of Pennsylvania.* (**1,** 1941)

Stickney, J. Clifford, Ph.D. West Virginia Univ. School of Medicine, Morgantown. *Assoc. Prof. of Physiology.* (**1,** 1944)

Stiebeling, Hazel K., Ph.D. U. S. Dept. of Agriculture, Washington, D. C. *Chief, Bureau of Human Nutrition and Home Economics.* (**5,** 1933)

Stier, Theodore J. B., Ph.D. Indiana Univ. Med. School, Bloomington. *Assoc. Prof. of Physiology.* (**1,** 1938)

Still, Eugene U., Ph.D. Box 991, Sarasota, Fla. (**1,** 1929)

Stimmel, Benjamin F., Ph.D. Rees-Stealy Clinic Research Fndn., 2001 Fourth Ave., San Diego, Calif. *Research Biochemist.* (**2,** 1947)

Stock, Aaron H., M.D. Children's Hospital of Pittsburgh, 125 De Soto St., Pittsburgh, Pa. (**6,** 1947)

Stock, C. Chester, Ph.D. Sloan-Kettering Inst. for Cancer Research, 444 East 68th St., New York City 21. *Chief, Div. of Exper. Chemotherapy.* (**2,** 1952)

Stockton, Andrew Benton, M.D. 655 Sutter St., San Francisco, Calif. *Asst. Clin. Prof. of Medicine.* (**3,** 1931)

Stoerk, Herbert C., M.D. Merck Inst. for Therapeutic Research, Rahway, N. J. *Head of Dept. of Cancer Research.* (**4,** 1948)

Stoesser, Albert V., M.D., Ph.D. Univ. of Minnesota Med. School, 1409 Willow St., Loring Park, Minneapolis. *Clin. Assoc. Prof. of Pediatrics.* (**6,** 1949)

Stohlman, Edward F., LL.B. Natl. Insts. of Health, Bethesda, Md. *Assoc. Pharmacologist.* (**3,** 1948)

Stokinger, Herbert E., Ph.D. Industrial Hygiene

Field Headquarters, Environmental Investigations Branch, 1014 Broadway, Cincinnati 2, Ohio. *Chief, Lab. Section.* (**3,** 1950; **6,** 1947)

Stokstad, E. L. Robert, Ph.D. Lederle Labs., Pearl River, N. Y. *Asst. Dir., Nutrition and Physiology Dept.* (**2,** 1947; **5,** 1942)

Stoland, O. O., Ph.D. 1845 Learnard Ave., Lawrence, Kan. *Prof. of Physiology and Pharmacology, Univ. of Kansas.* (**1R,** 1913)

Stoll, Arthur, Ph.D. Sandoz, Inc., Basle, Switzerland. *Prof.* (**3,** 1951)

Stone, Gilbert C. H. Ph.D. City College of New York, Dept. of Chemistry, Convent Ave. and 140th St., New York City 31. *Asst. Prof.* (**2,** 1950)

Stone, William E., Ph.D. Univ. of Wisconsin, Dept. of Physiology, Madison. *Asst. Prof. of Physiology.* (**1,** 1945)

Storer, John B. Box 1663, Los Alamos, New Mexico. *Staff Member, Los Alamos Scientific Lab.* (**4,** 1952)

Stormont, Robert T., Ph.D., M.D. American Med. Assoc., 535 N. Dearborn St., Chicago, Ill. *Sec. of Council on Pharmacy and Chemistry.* (**3,** 1941)

Storvick, Clara A., Ph.D. Oregon State College, School of Home Economics, Corvallis, Ore. *Assoc. Prof. of Foods and Nutrition.* (**5,** 1947)

Stotz, Elmer H., Ph.D. Univ. of Rochester School of Medicine and Dentistry, Rochester 20, N. Y. *Prof. of Biochemistry.* (**2,** 1939)

Stoughton, Roger W., Ph.D. Mallinckrodt Chemical Works, 3600 N. Second St., St. Louis, Mo. *Research Chemist.* (**3,** 1939)

Stowell, Robert E. Univ. of Kansas Med. Center, Dept. of Pathology and Oncology, Kansas City 12. *Prof. and Chairman of Dept.* (**4,** 1952)

Strong, Frank M., Ph.D. Univ. of Wisconsin, Madison 6. *Prof. of Biochemistry.* (**2,** 1941)

Struck, Harold Carl, Ph.D. Creighton Univ. School of Medicine, 302 N. 14th St., Omaha 2, Nebr. *Asst. Prof. of Physiology and Pharmacology.* (**1,** 1940; **3,** 1952)

Strughold, Hubertus, M.D., Ph.D. School of Aviation Medicine, Dept. of Space Medicine, Randolph Field, Tex. *Prof. and Chief of Dept.* (**1,** 1951)

Stuart, Charles A., Ph.D. 372 Lloyd Ave., Providence, R. I. *Assoc. Prof. of Biology, Brown Univ.* (**6,** 1935)

Stumpf, Paul K., Ph.D. Univ. of California, Div. of Plant Biochemistry, 3048 Life Science Bldg., Berkeley 4. *Assoc. Prof.* (**2,** 1950)

Sturgis, Cyrus Cressey, M.D. Simpson Memorial Inst., Ann Arbor, Mich. *Dir. of Thomas Henry Simpson Memorial Inst. for Med. Research; Chairman, Dept. of Medicine, Univ. of Michigan Hospital.* (**4,** 1927)

Sturkie, Paul D., Ph.D. Rutgers Univ., New Brunswick, N. J. *Assoc. Research Specialist in Poultry Husbandry; Assoc. Prof. of Poultry Husbandry.* (**1,** 1948)

Stutzman, Jacob W., Ph.D., M.D. Riker Labs., P. O. Box 3157, Terminal Annex, Los Angeles 54, Calif. *Dir. of Biological Research.* (**1,** 1946; **3,** 1948)

Sugg, John Y., Ph.D. Cornell Univ. Med. College, 1300 York Ave., New York City. *Assoc. Prof. of Bacteriology and Immunology.* (**6,** 1938)

Sulkin, S. Edward, Ph.D. Southwestern Med. College, Dallas, Tex. *Prof. and Chairman of Dept. of Bacteriology and Immunology.* (**6,** 1944)

Sullivan, Michael Xavier, Ph.D. Chemo-Medical Research Inst., Georgetown Univ., 37th & O Sts., N.W., Washington, D. C. *Dir. and Research Prof. of Chemistry.* (**2,** 1909)

Sulzberger, Marion B., M.D. 999 5th Ave., New York City. *Prof. and Chairman, Dept. of Dermatology and Syphilology, New York Univ. Post-Grad. Med. School; Dir. of Dermatology and Syphilology, Skin and Cancer Unit and Univ. Hospital, New York Univ.-Bellevue Med. Center.* (**6,** 1936)

Summerson, William H., Ph.D. Chemical Corps Med. Labs., Army Chemical Center, Md. *Chief, Biochemistry Div.* (**2,** 1942)

Sumner, J. B., Ph.D. Cornell Univ., Ithaca, N. Y. *Dir., Enzyme Chemistry Lab.* (**2,** 1919)

Sunderman, F. William, M.D., Ph.D. Jefferson Med. College, 1025 Walnut St., Philadelphia 7, Pa. *Dir., Div. of Metabolic Research.* (**2,** 1931)

Sundstroem, Edward S., M.D. Univ. of California, Berkeley 4. *Prof. Emeritus of Biochemistry.* (**2R,** 1919)

Sure, Barnett, Ph.D. Univ. of Arkansas, Fayetteville. *Head of Dept. and Prof. of Agricultural Chemistry.* (**2,** 1923; **5,** 1933)

Surtshin, Adolph, M.D. Washington Univ. School of Medicine, 4580 Scott Ave., St. Louis 10, Mo. *Asst. Prof. of Physiology and Medicine; Research Assoc. in Gerontology.* (**1,** 1951)

Sutherland, Earl W., Jr., M.D. Washington Univ. School of Medicine, Dept. of Biological Chemistry, St. Louis 10, Mo. *Asst. Prof.* (**2,** 1950)

Sutherland, George F., M.D. Johns Hopkins Univ., Dept. of Mental Hygiene, 2218 N. Charles St., Baltimore 18, Md. (**1,** 1939)

Sutton, T. Scott, Ph.D. Ohio State Univ., Columbus. *Asst. Dean, College of Agriculture; Prof. and Chairman, Dept. of Animal Science.* (**5,** 1936)

Svirbely, Joseph L., Ph.D. Univ. of Pittsburgh, Grad. School of Public Health, Dept. of Occupational Health, Pittsburgh 13, Pa. *Research Assoc.* (**3,** 1945)

Swain, Robert E., Ph.D. 634 Mirada Ave., Stanford Univ., Calif. *Prof. Emeritus of Chemistry.* (**2,** 1909)

Swann, Howard G., Ph.D. Univ. of Texas Med.

School, Dept. of Physiology, Galveston. *Asst. Prof. of Physiology.* (**1,** 1940)

Swanson, Marjorie A., Ph.D. Bowman Gray School of Medicine, Dept. of Biochemistry, Winston-Salem 7, N. C. *Asst. Prof.* (**2,** 1950)

Swanson, Pearl P., Ph.D. Iowa State College, Ames. *Prof. of Foods and Nutrition.* (**5,** 1933)

Swanson, William W., M.S., M.D. 2376 E. 71st St., Chicago, Ill. *Asst. Prof. of Pediatrics, Northwestern Univ.* (**2,** 1938)

Sweeney, H. Morrow, Ph.D. Aero-Med. Lab., Wright-Patterson Air Force Base, Dayton, Ohio. (**1,** 1939)

Sweet, J. E., M.D., Sc.D. Unadilla, N. Y. *Prof. Emeritus of Surgical Research, Cornell Univ. Med. College.* (**1R,** 1913)

Swendseid, Marian E., Ph.D. Univ. of Michigan, Simpson Memorial Inst., Ann Arbor. *Research Biochemist.* (**2,** 1950)

Swift, Homer, M.D., D.Sc. 888 Park Ave., New York City. *Member, Rockefeller Inst. for Med. Research; Physician to Hospital of Rockefeller Inst. for Med. Research.* (**6R,** 1920)

Swift, Raymond W., Ph.D. Pennsylvania State College, State College. *Prof. and Head of Dept. of Animal Nutrition.* (**5,** 1934)

Swingle, Wilbur Willis, Ph.D. Princeton Univ., Princeton, N. J. *Prof. of Biology.* (**1,** 1924)

Swinyard, Ewart A., Ph.D. Univ. of Utah, Salt Lake City. *Prof. of Pharmacy, School of Pharmacy.* (**3,** 1948)

Sydenstricker, V. P., M.D. Med. College of Georgia, Augusta. *Prof. of Medicine.* (**5,** 1944)

Sykes, Joseph F., Ph.D. U. S. Dept. of Agriculture, Bureau of Dairy Industry, Beltsville, Md. *Physiologist.* (**1,** 1942)

Syverton, Jerome T., M.D. Univ. of Minnesota, Minneapolis. *Prof. and Head, Dept. of Bacteriology and Immunology.* (**4,** 1940; **6,** 1947)

Szego, Clara M., Ph.D. Univ. of California, Los Angeles. *Asst. Prof. of Zoology.* (**1,** 1946)

Szent-Gyorgyi, Albert, Ph.D., M.D. Marine Biological Labs., Inst. of Muscle Research, Woods Hole, Mass. *Research Dir.* (**2,** 1949)

Szepsenwol, Josel, M.D. Emory Univ. School of Medicine, Emory University, Ga. *Asst. Prof. of Anatomy.* (**1,** 1948)

Tabor, Herbert, M.D. Natl. Insts. of Health, Pharmacology Section, Exper. Biology and Medicine Inst., Bethesda 14, Md. *Surgeon, USPHS.* (**3,** 1947)

Tager, Morris, M.D. Emory Univ. School of Medicine, Dept. of Bacteriology, 36 Butler St. S. E., Atlanta, Ga. (**6,** 1948)

Taggart, John V., M.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Medicine, 630 W. 168th St., New York City 32. *Asst. Prof. of Medicine; Welch Fellow in Internal Medicine, NRC.* (**1,** 1951)

Tahmisian, Theodore N., Ph.D. Argonne Natl. Lab., P.O. Box 5207, Chicago 80, Ill. *Group Leader; Assoc. Biologist.* (**1,** 1951)

Tainter, M. L., M.A., M.D. Sterling-Winthrop Research Inst., Rensselaer, N. Y. *Director.* (**1,** 1929; **3,** 1927)

Talbot, Samuel Armstrong, Ph.D. Johns Hopkins Hospital, Baltimore, Md. *Instr. in Physiological Optics, Johns Hopkins Univ.* (**1,** 1940)

Taliaferro, Lucy Graves, Sc.D. Univ. of Chicago, Dept. of Bacteriology and Parasitology, Chicago 37, Ill. *Voluntary Research Assoc.; Asst. Prof. in Parasitology.* (**6,** 1952)

Taliaferro, William H., Ph.D. Univ. of Chicago, Dept. of Bacteriology and Parasitology, Chicago, Ill. *Eliakim H. Moore Distinguished Service Prof. of Parasitology and Chairman of Dept.* (**6,** 1930)

Tannenbaum, Albert, M.D. Michael Reese Hospital, 29th St. & Ellis Ave., Chicago, Ill. *Dir. of Dept. of Cancer Research.* (**4,** 1942)

Tarr, H. L. A., Ph.D. Fisheries Exper. Station, 898 Richards St., Vancouver, B. C., Canada. *Principal Scientist, Biochemistry Dept.* (**2,** 1950)

Tarver, Harold, Ph.D. Univ. of California, Dept. of Biochemistry, Berkeley 4. *Assoc. Prof. of Biochemistry.* (**2,** 1947)

Tashiro, Shiro, Ph.D., M.D. Univ. of Cincinnati College of Medicine, Cincinnati, Ohio. *Prof. of Biochemistry.* (**1R,** 1913; **2,** 1913)

Tatum, Arthur L., Ph.D., M.D. Service Memorial Inst., Univ. of Wisconsin, Madison. *Prof. of Pharmacology.* (**1,** 1913; **3,** 1919)

Tatum, Edward L., Ph.D. Stanford Univ., School of Biological Sciences, Stanford University, Calif. *Prof. of Biology.* (**2,** 1947)

Tauber, Henry, Ph.D. Venereal Disease Exper. Lab., USPHS, Chapel Hill, N. C. *Sr. Biochemist; Assoc. Prof. of Exper. Medicine, School of Public Health, Univ. of North Carolina.* (**2,** 1933)

Taylor, A. N., Ph.D. Univ. of Oklahoma School of Medicine, Oklahoma City. *Asst. Prof. and Chairman of Dept. of Physiology.* (**1,** 1948)

Taylor, Alton R., Ph.D. Parke, Davis & Co., Detroit 32, Mich. *Research Virologist, Research Div.* (**2,** 1947)

Taylor, Charles Bruce, M.D. Univ. of North Carolina, School of Medicine, Dept. of Pathology, Chapel Hill. *Assoc. Prof.* (**1,** 1952; **4,** 1952)

Taylor, Clara Mae, Ph.D. Columbia Univ. Teachers' College, 525 W. 120th St., New York City 27. *Prof. of Nutrition.* (**5,** 1951)

Taylor, Craig L., Ph.D. Univ. of California, Dept. of Engineering, Los Angeles. *Assoc. Prof. of Engineering.* (**1,** 1945)

Taylor, Dermot B., M.B., B.Ch., B.A.O. Univ. of California Med. Center, San Francisco 22. *Assoc. Prof. of Pharmacology.* (**3,** 1950)

Taylor, Fred A., Ph.D. 320 E. North Ave., N. S.,

Pittsburgh, Pa. *Biochemist, Singer Memorial Lab.* (2, 1933)

Taylor, Haywood M., Ph.D. Duke Univ. School of Medicine, Durham, N. C. *Prof. of Toxicology and Assoc. Prof. of Biochemistry; Biochemist and Toxicologist to Duke Hospital.* (4, 1942)

Taylor, Henry Longstreet, Ph.D. Univ. of Minnesota, School of Public Health, Minneapolis. *Prof. of Physiological Hygiene.* (1, 1944)

Taylor, John Fuller, Ph.D. Univ. of Louisville, School of Medicine, Dept. of Biochemistry, Louisville 2, Ky. *Prof. and Chairman of Dept.* (2, 1944)

Taylor, M. Wight, Ph.D. New Jersey Agricultural Exper. Station, New Brunswick. *Assoc. Biochemist in Nutrition and Assoc. Prof. of Agricultural Biochemistry, Rutgers Univ.* (5, 1944)

Taylor, Norman Burke, M.D. 21 Ardwold Gate, Toronto 10, Ontario, Canada. (1, 1922)

Taylor, Richard M., M.D., D.P.H. Naval Med. Research Unit #3, American Embassy, Cairo, Egypt, % O. P. 32 Mail and Dispatch Section, Dept. of Navy, Washington 25, D. C. (6, 1949)

Taylor, Robert D., M.D. Clinical Research Div., Cleveland Foundation, Cleveland 6, Ohio. *Member.* (1, 1945)

Teague, Robert S., Ph.D., M.D. Medical College of Alabama, Dept. of Pharmacology, Birmingham 5. *Prof. and Chairman of Dept.* (3, 1942)

Templeton, Roy D., B.S. 133 Handley St., San Antonio, Tex. (1, 1935)

Ten Broeck, Carl, M.D. Jackson Lab., Bar Harbor, Me. (4R, 1932)

Teply, Lester J., Ph.D. 5058 Lake Mendota Drive, Madison, Wis. *Biochemist, Wisconsin Alumni Research Fndn.* (2, 1950)

Tepperman, Jay, M.D. State Univ. of New York College of Medicine, Dept. of Pharmacology, Syracuse, N. Y. *Assoc. Prof.* (1, 1944; 3, 1952)

Terplan, Kornel L., M.D. Univ. of Buffalo School of Medicine, Buffalo, N. Y. *Prof. of Pathology.* (4, 1935)

Terry, Roger, M.D. Univ. of Rochester School of Medicine and Dentistry, Dept. of Pathology, Rochester 20, N. Y. *Asst. Prof.* (4, 1949)

Thannhauser, S. J., M.D., Ph.D. Pratt Diagnostic Hospital, 30 Bennet St., Boston, Mass. *Sr. Physician; Prof. of Clin. Medicine, Tufts Med. School.* (2, 1937)

Thatcher, Jonathan S., M.D., Ph.D. U. S. Naval Radiological Defense Labs., Biological and Med. Science Div., San Francisco, Calif. *Head, Therapy Sec.* (1, 1949)

Thauer, Rudolf, M.D. W. G. Kerckhoff Inst., Bad Nauheim, U. S. Zone, Germany. *Dir.; Prof. and Head, Dept. of Physiology, Univ. of Giessen.* (1, 1949)

Thayer, Sidney Allen, Ph.D. 1402 S. Grand Blvd., St. Louis 22, Mo. *Prof. of Biochemistry, St. Louis Univ. School of Medicine.* (2, 1933)

Therman, Per-Olof, M.D. 111 N. 49th St., Philadelphia 39, Pa. *Neurophysiologist, Pennsylvania Hospital; Asst. Prof., Univ. of Pennsylvania.* (1, 1950)

Thienes, Clinton H., M.D., Ph.D. Univ. of Southern California School of Medicine, Los Angeles. *Prof. and Head of Dept. of Pharmacology and Toxicology.* (3, 1928)

Thomas, Arthur W., Ph.D. Columbia Univ., New York City 27. *Prof. of Chemistry.* (2, 1924)

Thomas, Byron H., Ph.D. Iowa State College, Ames. *Prof. and Head of Animal Chemistry and Nutrition, Iowa Agric. Exper. Station.* (5, 1933)

Thomas, Caroline Bedell, M.D. Johns Hopkins Hospital, Baltimore, Md. *Assoc. Prof. of Medicine, Johns Hopkins Univ. School of Medicine.* (1, 1939)

Thomas, J. Earl, M.D. Jefferson Med. College, Philadelphia, Pa. *Prof. of Physiology.* (1, 1922; 3, 1924)

Thomas, Lewis, M.D. Univ. of Minnesota Med. School, Heart Hospital, Minneapolis. *Prof. of Pediatrics and Medicine.* (6, 1950)

Thomas, Lloyd E., Ph.D. Univ. of Missouri, Dept. of Biochemistry, McAlester Hall, Columbia. *Assoc. Prof.* (2, 1951)

Thompson, Marvin R., Ph.D. 67 Greenwich Ave., Stamford, Conn. (3, 1944)

Thompson, Randall L., Sc.D., M.D. Indiana Univ., Med. Center, Indianapolis 7. *Prof. of Bacteriology.* (6, 1937)

Thompson, Richard, M.D. Univ. of Colorado, 4200 E. 9th Ave., Denver 7. *Prof of Bacteriology.* (6, 1951)

Thompson, William R., Ph.D. 1 Darroch Rd., Delmar, N. Y. *Sr. Biochemist, Div. of Labs. and Research, New York State Dept. of Health.* (2, 1934)

Thomson, David Landsborough, Ph.D. McGill Univ., Montreal, Quebec, Canada. *Prof. of Biochemistry and Dean of Faculty of Grad. Studies and Research.* (2, 1929)

Thomson, John D., Ph.D. State Univ. of Iowa, 240 Med. Labs., Iowa City. *Asst. Prof. of Physiology.* (1, 1951)

Thorn, George Widmer, M.D. Peter Bent Brigham Hospital, Boston, Mass. *Prof. of Medicine, Harvard Univ.* (1, 1939)

Thorp, W. T. S., D.V.M., M.S. Natl. Insts. of Health, Bethesda, Md. *Chief, Section on Comparative Pathology and Hematology.* (4, 1948)

Tidwell, Herbert C., Ph.D. Southwestern Med. School, 2211 Oak Lawn Ave., Dallas, Tex. *Prof. and Chairman of Dept. of Biochemistry.* (2, 1948)

Tillett, William S., M.D. New York Univ. College of Medicine, Dept. of Bacteriology, 477 First

Ave., New York City. *Prof. of Medicine.* (**6,** 1927)

Tilt, Jennie, Ph.D. 1011 Lincoln Blvd., Santa Monica, Calif. (**5R,** 1939)

Timiras, Paola S., M.D., Ph.D. Univ. of Montreal, Montreal, Canada. *Asst. Prof. of Physiology.* (**3,** 1952)

Tipson, R. Stuart, Ph.D. Mellon Inst. of Industrial Research, Univ. of Pittsburgh, Pittsburgh, Pa. *Sr. Fellow, Medicinal Chemistry Fellowship.* (**2,** 1937)

Tipton, Samuel R., Ph.D. Univ. of Tennessee, Dept. of Zoology, Knoxville. *Prof. of Zoology.* (**1,** 1940)

Tislow, Richard, M.D. Schering Corp., Bloomfield, N. J. (**1,** 1944; **3,** 1950)

Titus, Harry W., Ph.D. Lime Crest Research Lab., R.F.D. 1, Newton, N. J. *Technical Counsellor and Dir. of Nutritional Research.* (**2,** 1929; **5,** 1933)

Tobias, Julian M., M.D. Univ. of Chicago, Chicago, Ill. *Assoc. Prof. of Physiology.* (**1,** 1944)

Tocantins, Leandro Maués, M.D, Jefferson Med. College, Philadelphia, Pa. *Assoc. Prof. of Medicine.* (**1,** 1939)

Todd, Wilbert R., Ph.D. Univ. of Oregon Med. School, Portland. *Assoc. Prof. of Biochemistry.* (**2,** 1948; **5,** 1948)

Todhunter, Elizabeth Neige, Ph.D. Univ. of Alabama, University. *Prof. of Nutrition.* (**5,** 1939)

Toennies, Gerrit, Ph.D. Inst. for Cancer Research and Lankenau Hospital Research Inst., Philadelphia 11, Pa. *Head, Dept. of General Biochemistry.* (**2,** 1934)

Tolle, Chester D., Ph.D. Federal Security Agency, Food and Drug Admin., Washington, D. C. *Sr. Biochemist.* (**5,** 1942)

Toman, James E. P., Ph.D. Michael Reese Hosp., Inst. for Psychosomatic and Psychiatric Research and Training, Chicago, Ill. *Dir. of Neurophysiological Research.* (**1,** 1945; **3,** 1950)

Tomarelli, Rudolph M., Ph.D. Wyeth, Inc., Nutritional Div., Mason, Ingham County, Mich. *Sr. Investigator.* (**2,** 1950; **5,** 1950)

Tomlinson, Wray Joseph, M.D. St. Luke's Hospital, Jacksonville, Fla. *Chief of Labs.* (**4,** 1945)

Tompkins, Edna H., M.D. Cancer Research Inst., New England Deaconess Hospital, 195 Pilgrim Rd., Boston 15, Mass. *Research Assoc.* (**4,** 1941)

Topper, Yale J., Ph.D. Public Health Research Inst. of the City of New York, Inc., 15th St. and East River, New York City 9. *Assoc.* (**2,** 1952)

Torda, Clara, Ph.D., M.D. Cornell Univ. Med. College, New York City. *Research Assoc. in Pharmacology.* (**1,** 1943; **3,** 1944)

Toth, Louis A., Ph.D. Louisiana State Univ. School of Medicine, Dept. of Physiology, New Orleans 13. *Assoc. Prof. of Physiology.* (**1,** 1940)

Totter, John R., Ph.D. Oak Ridge Natl. Lab., Biology Div., Oak Ridge, Tenn. *Biochemistry.* (**2,** 1946)

Tourtellotte, Dee, D.Sc. Charles B. Knox Gelatin Co., 4th and Erie Sts., Camden, N. J. *Head of Nutrition Lab.* (**5,** 1935)

Touster, Oscar, Ph.D. Vanderbilt Univ., School of Medicine, Nashville, Tenn. *Asst. Prof. of Biochemistry.* (**2,** 1952)

Tower, Sarah Sheldon, M.D., Ph.D. Johns Hopkins Univ., Baltimore, Md. *Asst. Prof. of Psychiatry.* (**1,** 1932)

Trager, William, M.D., Ph.D. Rockefeller Inst. for Med. Research, 66th and York Ave., New York City 21. *Assoc. Member.* (**4,** 1947)

Traub, Frederick B., M.D. 405 E. 72nd St., New York City 28. *Assoc. Bacteriologist, Jewish Hospital of Brooklyn.* (**6,** 1946)

Travell, Janet, M.D. Cornell Univ. Med. College, New York City. *Assoc. Prof. of Clin. Pharmacology.* (**3,** 1933)

Travis, Lee Edward, Ph.D. Univ. of Southern California, Los Angeles. *Prof. of Psychology and Dir. of Psychological Center; Major, AAF (Yuma, Ariz.).* (**1,** 1929)

Treadwell, Carleton R., Ph.D. George Washington Univ. School of Medicine, Dept. of Biochemistry, 1335 H St., N. W., Washington, D. C. *Prof. of Biochemistry.* (**2,** 1944; **5,** 1949)

Treffers, Henry P., Ph.D. Yale Med. School, Dept. of Immunology, New Haven, Conn. *Assoc. Prof. of Immuno-chemistry.* (**6,** 1942)

Trimble, Harry C., Ph.D. Harvard Med. School, 25 Shattuck St., Boston, Mass. *Asst. Prof. of Biological Chemistry.* (**2,** 1929; **5,** 1936)

Trurnit, Hans Joachim, M.D. Med. Labs., Army Chemical Center, Md. *Research Biophysicist* (**1,** 1950)

Tschirgi, Robert D., M.D., Ph.D. Univ. of Chicago, Dept. of Physiology, Abbott Hall, Chicago 37, Ill. *Asst. Prof.* (**1,** 1951)

Tuba, Jules, Ph.D. Univ. of Alberta, Dept. of Biochemistry, Edmonton, Alberta, Canada. *Prof.* (**2,** 1950)

Tuft, Louis, M.D. 1530 Locust St., Philadelphia, Pa. *Asst. Prof. of Medicine, Temple Univ. Med. School; Chief of Clinic of Allergy and Applied Immunology, Temple Univ. Hospital.* (**6,** 1928)

Tullis, John Louis, Cmdr, MC. U. S. Navy, Office of Naval Research, % Fleet Post Office, New York City. (**4,** 1952)

tum Suden, Caroline, Ph.D. Med. Labs., Toxicology, Army Chemical Center, Md. (**1,** 1936)

Tunturi, Archie Robert, Ph.D. Univ. of Oregon Med. School, Portland. *Asst. Prof. of Anatomy.* (**1,** 1946)

Tuohy, Edward B., M.S., M.D. 4801 La Canada Verdugo Rd., La Canada, Calif. *Private practice.* (**3,** 1941)

Turner, Abby H., Ph.D. Mount Holyoke College, South Hadley, Mass. *Prof. of Physiology.* (**1R,** 1928)

Turner, Robert A., Ph.D. State Univ. of New York at New York City, College of Medicine, Brooklyn 2. *Assoc. Prof. of Biochemistry.* (**2,** 1952)

Tuttle, Waid Wright, Ph.D. State Univ. of Iowa, Iowa City. *Prof. of Physiology.* (**1,** 1925)

Tyler, Albert, Ph.D. California Inst. of Technology, Pasadena, Calif. *Assoc. Prof. of Embryology.* (**6,** 1946)

Tyler, David B., Ph.D. Univ. of Puerto Rico School of Medicine, San Juan 22. *Prof. of Pharmacology.* (**1,** 1943; **3,** 1951)

Tytell, Alfred A., Ph.D. Sharp & Dohme, Inc., Antibiotics Dept., West Point, Pa. *Research Assoc.* (**2,** 1951; **6,** 1950)

Udenfriend, Sidney, Ph.D. Natl. Insts. of Health, Natl. Heart Inst., Dept. of Chemical Pharmacology, Bethesda 14, Md. *Biochemist.* (**2,** 1950)

Umbreit, Wayne W., Ph.D. Merck Inst. for Therapeutic Research, Rahway, N. J. *Asst. Dir.* (**2,** 1947)

Ungar, Georges, M.D., D.Sc. Rheumatic Fever Research Inst., 3026 S. California Ave., Chicago 8, Ill. *Research Assoc.* (**1,** 1950)

Ungar, Lester J., M.D. New York Univ. Post Grad. Med. School, 303 East 20th St., New York City. *Assoc. Prof. of Clin. Medicine.* (**6,** 1952)

Unna, Klaus R. W., M.D. Univ. of Illinois College of Medicine, 1853 W. Polk St., Chicago 12. *Prof., Dept. of Pharmacology.* (**1,** 1941; **3,** 1944; **5,** 1942)

Upton, Morgan, Ph.D. Rutgers Univ., Dept. of Psychology, New Brunswick, N. J. (**1,** 1934)

Urban, Frank, Ph.D., M.D. 302 Northern Bldg., Green Bay, Wis. *Physician and Surgeon.* (**2,** 1932)

Utter, Merton F., Ph.D. Western Reserve Univ., Dept. of Biochemistry, Cleveland, Ohio. *Assoc. Prof.* (**2,** 1946)

Vahlteich, Ella McCollum, Ph.D. 310 Walnut St., Englewood, N. J. (**5,** 1933)

Valle, J. R., M.D. Escola Paulista de Medicina, Caixa Postal 7144, Sao Paulo, Brazil. *Prof. of Pharmacology.* (**3,** 1947)

Van Bruggen, John T., Ph.D. Univ. of Oregon Med. School, Portland. *Assoc. Prof. of Biochemistry* (**2,** 1952)

Vander Brook, Milton J., Ph.D. The Upjohn Co., Kalamazoo 99, Mich. *Pharmacologist.* (**3,** 1950)

Vander [illegible], James, Ch. E. Lederle Labs., Inc., Pearl River, N. Y. *Research Chemist.* (**6,** 1946)

Van Dyke, H. B., Ph.D., M.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St. New York City 32. *Hosack Prof. of Pharmacology.* (**1,** 1925; **3,** 1927)

van Harreveld, Anthonie, M.A., M.D. California Inst. of Technology, Pasadena. *Prof. of Physiology.* (**1,** 1941)

Van Liere, Edward J., M.D., Ph.D. West Virginia Univ. School of Medicine, Morgantown. *Prof. of Physiology and Dean.* (**1,** 1927)

Van Maanen, Evart Florus, Ph.D. Univ. of Cincinnati, College of Medicine, Dept. of Pharmacology, Eden and Bethesda Aves., Cincinnati 19, Ohio. *Asst. Prof.* (**3,** 1951)

Van Middlesworth, Lester, Ph.D. Univ. of Tennessee, Memphis. *Instr. in Physiology.* (**1,** 1948)

Van Slyke, Donald D., Ph.D., M.D. Brookhaven Natl. Lab., Upton, L. I., N. Y. *Chemist, Med. Dept.; Counselor, Lilly Research Grants; Member Emeritus, Rockefeller Inst.* (**2,** 1908)

van Wagenen, Gertrude, Ph.D. Yale Univ. School of Medicine, New Haven, Conn. *Assoc. Prof.* (**1,** 1932)

van Wagtendonk, Willem J., Ph.D. Indiana Univ., Dept. of Zoology, Bloomington. *Assoc. Prof.* (**2,** 1946)

Van Winkle, Walton, Jr., M.D. Ethicon Suture Labs., Research Dept., New Brunswick, N. J. *Dir. of Research.* (**3,** 1939)

Varney, Philip L. Washington Univ. School of Medicine, St. Louis, Mo. *Asst. Prof. of Bacteriology.* (**6,** 1948)

Vars, Harry M., Ph.D. Univ. of Pennsylvania Med. School, Harrison Dept. of Surgical Research, Philadelphia. *Assoc. Prof. of Physiological Chemistry.* (**2,** 1935; **5,** 1935)

Velick, Sidney Frederick. Washington Univ. School of Medicine, Dept. of Biochemistry, Euclid Ave. and Kingshighway, St. Louis 10, Mo. *Asst. Prof. of Biochemistry.* (**2,** 1946)

Vennesland, Birgit, Ph.D. Univ. of Chicago, Dept. of Biochemistry, Chicago, Ill. *Assoc. Prof.* (**2,** 1944)

Venning, Eleanor H., Ph.D. Univ. Clinic, Royal Victoria Hospital, Pine Ave., Montreal, Quebec, Canada. *Asst. Prof. of Medicine, McGill Univ.* (**2,** 1938)

Vestling, Carl Swensson, Ph.D. Univ. of Illinois, Noyes Lab., Urbana, Ill. *Assoc. Prof. of Biochemistry.* (**2,** 1946)

Vickery, Hubert B., Ph.D. Connecticut Agric. Exper. Station, New Haven. *Biochemist in Charge, Dept. of Biochemistry; Lecturer in Physiological Chemistry, Yale Univ.* (**2,** 1923)

Victor, Joseph, M.D. Camp Detrick, Frederick, Md. *Chief, Pathology Branch.* (**4,** 1935)

Villee, Claude A., Jr., Ph.D. Harvard Med. School, 25 Shattuck St., Boston 15, Mass. *Asst. Prof. of Biological Chemistry.* (**2,** 1948)

Virtue, Robert W., Ph.D., M.D. Univ. of Colorado

Med. Center, 4200 E. 9th Ave., Denver 7. *Acting Head, Div. of Anesthesiology.* (**2,** 1939)

Visscher, Frank E., Ph.D. Upjohn Co., Kalamazoo 99, Mich. *Research Scientist, Dept. of Pharmacology and Endocrinology.* (**1,** 1947)

Visscher, Maurice B., Ph.D., M.D. Univ. of Minnesota, Minneapolis. *Prof. and Head of Dept. of Physiology.* (**1,** 1927)

Visser, Donald W., Ph.D. Univ. of Southern California, Los Angeles 7. *Asst. Prof. of Biochemistry.* (**2,** 1952)

Voegtlin, Carl, Ph.D. "Deerhaunt", Dorset, Vt. (**1R,** 1908; **2,** 1908; **3R,** 1908)

Vogel, F. Stephen, M.D. Cornell Univ. Med. College, 1300 York Ave., New York City 21. *Asst. Prof. of Pathology.* (**4,** 1951)

Vogel, Peter, M.D. 51 East 90th St., New York City, N. Y. (**6,** 1951)

von Haam, Emmerich, M.D. Ohio State Univ., Columbus. *Prof. of Pathology.* (**4,** 1938)

von Magnus, Herdis, M.D. State Serum Inst. Copenhagen, Denmark. *Virologist.* (**6,** 1952)

Von Oettingen, W. F., M.D., Ph.D. Natl. Insts. of Health, Lab. of Physical Biology, Exper. Biology and Medicine Inst., Bethesda, Md. *Med. Officer, Toxicology.* (**3,** 1925)

Voris, LeRoy, Ph.D. Natl. Research Council, 2101 Constitution Ave., Washington 25, D. C. *Exec. Sec., Food and Nutrition Board.* (**5,** 1949)

Vorwald, Arthur J., Ph.D., M.D. Saranac Lake, N. Y. *Dir., Edward L. Trudeau Foundation and Saranac Lab.* (**4,** 1937)

Vos, Bert J., Ph.D., M.D. Food and Drug Admin., Div. of Pharmacology, Washington, D. C. *Pharmacologist.* (**3,** 1941)

Wachstein, Max, M.D. St. Catherine's Hospital, Brooklyn, N. Y. *Dir. of Lab.; Research Asst., Mt. Sinai Hospital.* (**4,** 1947)

Waddell, James, Ph.D. E. I. duPont de Nemours & Co., Stine Laboratory, Newark, Del. *Manager, Animal Nutrition Section.* (**2,** 1930; **5,** 1935)

Wadsworth, Augustus B., M.D. State Dept. of Health, Div. of Labs. and Research, New Scotland Ave., Albany 1, N. Y. (**6,** 1920)

Waelsch, Heinrich, M.D., Ph.D. 722 West 168th St., New York City 32. *Prin. Research Pharmacologist, N. Y. State Psychiatric Inst. and Hospital; Assoc. Prof. of Biochemistry, Columbia Univ.* (**2,** 1941)

Wagman, Irving H., Ph.D. Jefferson Med. College, Dept. of Physiology, Philadelphia 7, Pa. *Assoc. Prof. of Physiology.* (**1,** 1946)

Wagner-Jauregg, Theodor, Ph.D. Chemical Corps Med. Labs., Army Chemical Center, Md. *Chief, Medicinal Chemistry Branch.* (**2,** 1951)

Wainio, Walter W., Ph.D. Rutgers Univ., Bureau of Biological Research, Box 515, New Brunswick, N. J. *Assoc. Research Specialist.* (**2,** 1950)

Waisman, Harry A., M.D., Ph.D. Univ. of Wisconsin Med. School, Dept. of Pediatrics, Madison 6. *Assoc. Prof. of Pediatrics.* (**2,** 1944)

Wakeman, Alfred J., Ph.D. Hatfield Hill Rd., Bethany, Conn. *Retired.* (**2,** 1906)

Wakerlin, George E., Ph.D., M.D. Univ. of Illinois Med. School, 1853 W. Polk St., Chicago. *Prof. and Head of Dept. of Physiology.* (**1,** 1933; **3,** 1934)

Wakim, Khalil G., M.D., Ph.D. Mayo Clinic, Rochester, Minn. *Consultant; Prof. of Physiology, Mayo Foundation.* (**1,** 1942; **3,** 1951)

Waksman, Byron H., M.D. 52 Phillips St., Boston 14, Mass. *Research Fellow, Massachusetts General Hospital; Teaching appointment, Harvard Med. School.* (**6,** 1950)

Walcott, William W., Ph.D. Columbia Univ. College of Physicians and Surgeons, Dept. of Physiology, New York City 32. *Instructor.* (**1,** 1947)

Wald, George, Ph.D. Harvard Univ., Biological Labs., Cambridge 38, Mass. *Prof. of Biology.* (**1,** 1934; **2,** 1950)

Waldron, Jerome M., M.D. Jefferson Med. College, Philadelphia 7, Pa. *Asst. Prof. of Physiology.* (**1,** 1952)

Walker, A. Earl, M.D. 601 N. Broadway, Baltimore 5, Md. *Prof. of Neural Surgery, The Johns Hopkins Univ.* (**1,** 1950)

Walker, Arthur M., M.D. Veterans Admin., Washington 25, D. C. (**1,** 1932; **3,** 1939)

Walker, Burnham S., Ph.D., M.D. Boston Univ. School of Medicine, 80 E. Concord St., Boston, Mass. *Prof. of Biochemistry.* (**2,** 1940)

Walker, Harry A., Ph.D. Emory Univ. School of Medicine, Emory University, Ga. *Assoc. Prof. of Pharmacology.* (**3,** 1948)

Walker, Sheppard M., Ph.D. Univ. of Louisville School of Medicine, 101 W. Chestnut St., Louisville, Ky. *Asst. Prof. of Physiology.* (**1,** 1946)

Wallen-Lawrence, Zonja, Ph.D. 4534 W. Pine Blvd., St. Louis 8, Mo. (**2,** 1937)

Walter, Annabel W. 86–42 251st St., Bellerose 6, N. Y. *Bacteriologist.* (**6,** 1946)

Walter, Carl W., M.D. 721 Huntington Ave., Boston, Mass. *Asst. Clin. Prof. of Surgery, Harvard Med. School; Surgeon, Peter Bent Brigham Hosp.* (**4,** 1942)

Walters, Orville S., Ph.D., M.D. McPherson, Kan. *Physician.* (**1,** 1936)

Walton, Robert P., Ph.D., M.D. Med. College of the State of South Carolina, Charleston. *Prof. of Pharmacology.* (**3,** 1933)

Walton, Seth T., V.M.D., Ph.D. Lab., Veterans Hospital, Oteen, N. C. *Dir. of Labs. and Research.* (**6,** 1936)

Walzer, Matthew, M.D. 20 Plaza St., Brooklyn, N. Y. *Attending in Allergy, Jewish Hospital of Brooklyn.* (**6,** 1924)

Wang, Chi Che, Ph.D. U. S Veterans Admin. Hospital, Hines, Ill. *In charge of Metabolic*

Lab.; Assoc. Prof. of Dept. of Biochemistry, Northwestern Univ. Med. School, Chicago, Ill. (**2,** 1922; **5,** 1933)

Wang, Shih-Chun, M.D., Ph.D. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City 32. *Assoc. Prof. of Physiology.* (**1,** 1943; **3,** 1952)

Wangeman, Clayton P., M.D. Broadway Med. Center, Associated Anesthesiologists, Seattle, Washington. (**3,** 1946)

Wangensteen, Owen Harding, M.D. Univ. Hospital, Minneapolis 14, Minn. *Prof. of Surgery, Univ. of Minnesota.* (**1,** 1947; **4,** 1931)

Ward, Arthur A., Jr., M.D. Univ. of Washington, School of Medicine, Div. of Neurosurgery, Seattle. *Asst. Prof. of Surgery; Head of Div.* (**1,** 1949)

Ward, Robert, M.D. New York Univ. College of Medicine, Dept. of Pediatrics, 477 First Ave., New York City 16. *Prof.* (**6,** 1951)

Ward, Walter E., Ph.D., M.D. Cutter Labs., Fourth and Parker Sts., Berkeley 1, Calif. *Assoc. Med. Dir.* (**6,** 1947)

Ware, Arnold G., Ph.D. Los Angeles County Hospital, Main Lab., 1200 N. State St., Los Angeles 33, Calif. *Head Chemist; Assoc. Prof., Dept. of Biochemistry, Univ. of Southern California.* (**2,** 1949)

Warner, Emory D., M.D. Med. Labs. Bldg., Iowa City, Ia. *Prof. of Pathology.* (**4,** 1937)

Warner, Robert C., Ph.D. New York Univ. College of Medicine, 477 First Ave., New York City 16. *Asst. Prof. of Chemistry.* (**2,** 1946)

Warren, James V., M.D. Duke Univ., School of Medicine, Dept. of Medicine, Durham, N. C. (**1,** 1947)

Warren, Joel. 7415 Lynnhurst St., Chevy Chase, Md. *Chief, Virus Research Section, Army Med. Service Grad. School.* (**6,** 1949)

Warren, Marshall R., Ph.D. Univ. of Tennessee College of Medicine, Memphis. *Assoc. Prof. of Pharmacology.* (**3,** 1948)

Warren, Shields, M.D. 195 Pilgrim Rd., Boston, Mass. *Prof. of Pathology, Harvard Med. School; Dir., Div. of Biology and Medicine, USAEC.* (**4,** 1929)

Wartman, William Bechmann, M.D. Northwestern Univ., 303 East Chicago Ave., Chicago 11, Ill. *Morrison Prof. and Chairman of Dept. of Pathology.* (**4,** 1940)

Wasteneys, Hardolph, Ph.D. Univ. of Toronto, Toronto, Ontario, Canada. *Prof. and Head of Dept. of Biochemistry.* (**2R,** 1915)

Waterman, Robert E., B.S. Schering Corp., 2 Broad St., Bloomfield, N. J. *Vice-Pres.* (**2,** 1940)

Waters, Ralph Milton, M.D. R. R. #3, Box 456, Orlando, Fla. (**3R,** 1937)

Watson, Cecil J., M.D., Ph.D. University Hospital, Dept. of Medicine, Minneapolis, Minn. *Prof. and Head of Dept. of Medicine.* (**2,** 1952; **4,** 1941)

Watson, Dennis W. Univ. of Minnesota Med. School, Dept. of Bacteriology and Immunology, Minneapolis. *Assoc. Prof.* (**6,** 1949)

Watson, John B., Ph.D. Box 526, Westport, Conn. (**1,** 1907)

Watts, Daniel T., Ph.D. Univ. of Virginia Med. School, Dept. of Pharmacology, Charlottesville. *Assoc. Prof. of Pharmacology.* (**3,** 1950)

Waud, Russell A., M.D., Ph.D. Univ. of Western Ontario Med. School, London, Ontario, Canada. *Prof. and Head of Dept. of Pharmacology.* (**3,** 1931)

Waugh, David F., Ph.D. Massachusetts Inst. of Technology, Dept. of Biology and Biological Engineering, Cambridge. *Asst. Prof. of Physical Biology.* (**1,** 1943)

Way, E. Leong, Ph.D. Univ. of California Med. Center, San Francisco. *Assoc. Prof. of Pharmacology.* (**3,** 1947)

Wearn, Joseph T., M.D. Lakeside Hospital, Cleveland, Ohio. *Dir. of Medicine; Prof. of Medicine, Western Reserve Univ.* (**1,** 1921)

Weatherby, J. H., Ph.D. Med. College of Virginia, Dept. of Physiology and Pharmacology, Richmond. *Assoc. Prof. of Pharmacology.* (**3,** 1941)

Weber, Clarence J., M.D., Ph.D. 7365 Pershing Ave., University City 5, Mo. (**2,** 1931)

Webster, Bruce, M.D., C.M. Cornell Univ. Med. College, 1300 York Ave., New York City. *Asst. Prof. of Medicine; Assoc. Attending Physician, New York Hospital.* (**5,** 1935)

Weed, Lewis H., M.D., Ph.D. Natl. Research Council, 2101 Constitution Ave., Washington, D. C. (**1R,** 1919)

Wégria, René, M.D. Presbyterian Hospital, Dept. of Medicine, 622 W. 168th St., New York City. *Asst. Prof. of Medicine.* (**1,** 1941; **3,** 1950)

Weichert, Charles K., Ph.D. Univ. of Cincinnati, Cincinnati, Ohio. *Prof. of Zoology.* (**1,** 1935)

Weichselbaum, Theodore E., Ph.D. Washington Univ. School of Medicine, Dept. of Surgery, 4580 Scott Ave., St. Louis 10, Mo. *Asst. Prof. of Experimental Surgery.* (**2,** 1950)

Weil, Alfred J., M.D. The Bronx Hospital, New York City. *Dir. of Dept. of Bacteriology.* (**6,** 1940)

Weil, Arthur, M.D. 115-06 Park Lane South, Kew Gardens, L. I., N. Y. (**4,** 1940)

Weil, Leopold, Ph.D. U. S. Dept. of Agriculture, Eastern Regional Research Lab., Chestnut Hill Station, Philadelphia 18, Pa. *Chemist.* (**2,** 1942)

Weil, Marvin Lee, M.D. Children's Hospital, Elland Ave. and Bethesda, Cincinnati, Ohio. (**6,** 1950)

Weinhouse, Sidney, Ph.D. Lankenau Hospital Research Inst., Fox Chase, Philadelphia 11, Pa. *Head, Metabolic Chemistry.* (**2,** 1948)

Weir, Everett G., Ph.D. 231 S. 13th Ave., Maywood, Ill. (**1,** 1941)

Weiser, Russell S., Ph.D. Univ. of Washington School of Medicine, Seattle 5. *Assoc. Prof. of Microbiology.* (**6,** 1948)

Weiss, Charles, Ph.D., M.D. Albert Einstein Med. Center, Northern Div., York and Tabor Rds., Philadelphia, Pa. *Head, Div. of Microbiology.* (**4,** 1934; **6,** 1920)

Weiss, Emil, M.D., Ph.D. 5036 Bernard St., Chicago, Ill. *Pathologist, People's Hospital.* (**6,** 1927)

Weiss, Paul, Ph.D. Univ. of Chicago, Chicago, Ill. *Prof. of Zoology.* (**1,** 1936)

Weissman, Norman, Ph.D. Maimonides Hospital of Brooklyn, 4802 10th Ave., Brooklyn 19, N. Y. *Chemist to Med. Services; Assoc. Prof. of Medicine, State Univ. of New York College of Medicine, New York City.* (**2,** 1951)

Welch, Arnold D., Ph.D., M.D. Western Reserve Univ. School of Medicine, Cleveland, Ohio. *Prof. and Dir. of Dept. of Pharmacology.* (**2,** 1950; **3,** 1942; **5,** 1944)

Welch, Henry, Ph.D. U. S. Food and Drug Admin., Rm. 6171 S. Agriculture Bldg., Washington, D. C. *Div. of Antibiotics.* (**6,** 1932)

Weld, Charles Beecher, M.A., M.D. Dalhousie Univ., Halifax, N.S., Canada. *Prof. of Physiology.* (**1,** 1936)

Weld, Mrs. Julia T. Columbia Univ. College of Physicians and Surgeons, 630 W. 168th St., New York City. *Research Assoc. in Pathology.* (**6,** 1920)

Welker, William H., Ph.D. 534 N. Elmwood Ave., Oak Park, Ill. *Prof. Emeritus of Biological Chemistry, Univ. of Illinois College of Medicine.* (**2,** 1906)

Weller, Carl Vernon, M.D. 1130 Fair Oaks Parkway, Ann Arbor, Mich. *Prof. and Chairman of Dept. of Pathology, Univ. of Michigan,* (**4,** 1923)

Weller, Thomas H., M.D. Harvard School of Public Health, Boston, Mass. *Assoc. Prof. of Tropical Public Health.* (**6,** 1952)

Wells, Herbert S., M.D. Veterans Hospital, 54th St. and 48th Ave. S., Minneapolis, Minn. (**1,** 1932)

Wells, Ibert C., Ph.D. State Univ. of New York Med. Center at Syracuse Univ., Dept. of Biochemistry, Syracuse 10. *Asst. Prof.* (**2,** 1952)

Wells, Joseph Albert, M.D., Ph.D. Northwestern Univ. Med. School, Chicago, Ill. *Prof. of Pharmacology.* (**3,** 1944)

Welsh, John H., Ph.D. Harvard Univ., Biological Labs., 16 Divinity Ave., Cambridge 38, Mass. *Assoc. Prof. of Zoology.* (**1,** 1945)

Wendel, William B., Ph.D. Tulane Univ. School of Medicine, 6501 St. Charles Ave., New Orleans 15, La. *Prof. and Chairman, Dept. of Biochemistry.* (**2,** 1932)

Werber, Erna A., Ph.D. 170 W. 73rd St., Apt. 3D, New York City. *Dir. of Research Lab., Jewish Hospital of Brooklyn.* (**6,** 1948)

Werkman, C. H., Ph.D. Iowa State College, Science Hall, Ames. *Prof. and Head of Dept. of Bacteriology.* (**2,** 1942)

Werle, Jacob M., M.D. 2000 W. 25th St., Cleveland 13, Ohio. *Surgeon.* (**1,** 1943)

Werner, Harold W., Ph.D. The Wm. S. Merrell Co., Lockland Station, Cincinnati, Ohio. *Dir. Pharmacological Research.* (**3,** 1942)

Wertenberger, Grace E., Ph.D. Univ. of Indiana, Dept. of Physiology, Bloomington. (**1,** 1943)

Werthessen, Nicholas T., Ph.D. Fndn. of Applied Research, Culebra Rd., San Antonio, Tex. (**1,** 1946)

Wertz, Anne W., Ph.D. Univ. of Massachusetts, Nutrition Research Labs., Home Economics Dept., Amherst. *Prof., Research, Home Economics Nutrition.* (**5,** 1950)

Wescoe, W. Clarke, M.D. Univ. of Kansas Med. Center, Kansas City 12. *Prof. of Pharmacology and Exper. Medicine.* (**3,** 1949)

Wesson, Laurence G., Ph.D. Forsyth Dental Infirmary, Boston, Mass. *Research Biochemist.* (**2,** 1929; **3,** 1932)

Wesson, Laurence G., Jr., Ph.D. New York Univ.-Bellevue Med. Center, Post-Grad. Med. School, Dept. of Medicine, New York City 16. *Asst. Prof.* (**1,** 1949)

West, Edward S., Ph.D. Univ. of Oregon Med. School, Portland. *Prof. of Biochemistry.* (**2,** 1925)

West, Harold D., Ph.D. Meharry Med. College, Nashville 8, Tenn. *Prof. and Head of Dept. of Biochemistry.* (**2,** 1946)

Westerfeld, Wilfred Wiedey, Ph.D. State Univ. of New York, Med. Center at Syracuse Univ., Syracuse 10, N. Y. *Prof. of Biochemistry.* (**2,** 1944)

Westfall, B. A., Ph.D. Univ. of Missouri School of Medicine, Dept. of Physiology and Pharmacology, Columbia. *Prof. of Pharmacology.* (**1,** 1949; **3,** 1950)

Weston, Raymond E., M.D., Ph.D. Montefiore Hospital, Med. Div., New York City 67. *Asst. in Medicine.* (**1,** 1947)

Westphal, Ulrich F., Ph.D. Army Med. Research Lab., Biochemistry Dept., Fort Knox, Ky. *Chief, Protein Section.* (**2,** 1952)

Wetzel, Norman C., M.D. Children's Fresh Air Camp and Hospital of Cleveland, Cleveland Heights 6, Ohio. *Consultant in Growth and Nutrition.* (**5,** 1952)

Weymouth, Frank W., Ph.D. Stanford Univ., Calif. *Prof. and Exec. of Dept. of Physiology.* (**1R,** 1917)

Wheeler, Albert H., M.S., M.S.P.H., Dr.P.H.

Univ. of Michigan Hospital, Serology Lab., Ann Arbor. *Research Assoc.* (**6,** 1950)

Wheeler, George W., M.D. New York Hospital, 525 E. 68th St., New York City. *Asst. Dir.* (**6,** 1920)

Wheeler, Mary W., M.A. New York State Dept. of Health, Div. of Labs. and Research, Albany *Assoc. Bacteriologist.* (**6,** 1933)

Wheelon, Homer, M.S., M.D. Univ. of Washing ton, Seattle. *Prof. of Medicine.* (**1,** 1919)

Whipple, George H., M.D., Sc.D. Univ. of Rochester, Rochester, N. Y. *Prof. of Pathology and Dean of School of Medicine and Dentistry.* (**1,** 1911; **4,** 1913)

White, Abraham, Ph.D. Chemical Specialties Co., Inc., 22 E. 40th St., New York City 16. *Vice-Pres. and Dir. of Research; Lecturer in Biochemistry, Columbia Univ. College of Physicians and Surgeons.* (**2,** 1934; **5,** 1937)

White, Alan G. C., Ph.D. Tulane Univ., Dept. of Biochemistry, New Orleans, La. *Assoc. Prof. of Biochemistry.* (**2,** 1949)

White, Colin, B.S. Med. School, Hospital Centre, Dept. of Physiology, Birmingham 15, England. (**1,** 1949)

White, Florence R., Ph.D. % Dr. Julius White, Natl. Insts. of Health, Natl. Cancer Inst., Bethesda 14, Md. *Biochemist.* (**2,** 1946)

White, Frank D., Ph.D. Univ. of Manitoba, Faculty of Medicine, Bannatyne Ave., Winnepeg, Manitoba, Canada. *Prof. of Biochemistry; Biochemist, Winnipeg General Hospital.* (**2,** 1931)

White, Harvey Lester, M.D. Washington Univ. Med. School, St. Louis 10, Mo. *Prof. of Physiology.* (**1,** 1923)

White, Julius, Ph.D. Natl. Insts. of Health, Natl. Cancer Inst., Bethesda 14, Md. *Head Chemist.* (**2,** 1937)

White, Paul Dudley, M.D. Massachusetts General Hospital, Boston, Mass. *Physician (in charge of Cardiac Clinics and Lab.); Lecturer in Medicine, Harvard Med. School.* (**3,** 1921)

Whitehair, C. K., Ph.D. Univ. of Illinois, College of Veterinary Medicine, Dept. of Physiology and Pharmacology, Urbana. *Assoc. Prof.* (**5,** 1952)

Whitehead, Richard W., M.A., M.D. Univ. of Colorado School of Medicine, 4200 E. Ninth Ave., Denver. *Prof. of Physiology and Pharmacology.* (**1,** 1933; **3,** 1928)

Whitehorn, William V., M.D. Univ. of Illinois College of Medicine, Chicago. *Asst. Prof. of Applied Physiology.* (**1,** 1947)

Whittenberger, James L., M.D. Harvard School of Public Health, Dept. of Physiology, 55 Shattuck St., Boston 15, Mass. *Asst. Prof. and Head of Dept. of Physiology.* (**1,** 1949)

Wick, Arne N., Ph.D. 615 Rosemont St., La Jolla, Calif. *In charge of research, Scripps Metabolic Clinic.* (**2,** 1951)

Wiener, Alexander S., M.D. 64 Rutland Rd., Brooklyn, N. Y. *Bacteriologist and Serologist to Office of Chief Med. Examiner of New York City; Head of Transfusion Div., Jewish Hospital of Brooklyn.* (**6,** 1932)

Wiercinski, Floyd J., Ph.D. Hahnemann Med. College, 235 N. 15th St., Philadelphia, Pa. *Asst. Prof. in Physiology.* (**1,** 1950)

Wiersma, Cornelis A. G., Ph.D. California Inst. of Technology, Pasadena. *Assoc. Prof. of Physiology.* (**1,** 1941)

Wiese, Alvin C., Ph.D. Univ. of Idaho, Dept. of Agricultural Chemistry, Moscow. *Prof. and Head of Dept.* (**5,** 1950)

Wiese, Hilda F., Ph.D. Univ. of Texas Med. Branch, Galveston. *Assoc. Prof. and Consultant in Pediatric Nutrition.* (**5,** 1952)

Wiggers, Carl J., M.D., Sc.D. Western Reserve Univ. Med. School, Cleveland, Ohio. *Prof. Emeritus of Physiology.* (**1,** 1907; **3R,** 1909)

Wiggers, Harold C., Ph.D. Union Univ., Albany Med. College, Dept. of Physiology and Pharmacology, Albany 3, N. Y. *Prof. and Chairman of Dept.* (**1,** 1938)

Wigodsky, Herman S., Ph.D., M.D. 420 E. Houston St., San Antonio 5, Tex. (**1,** 1943)

Wikler, Abraham, M.D. USPHS Hospital, Lexington, Ky. *Sr. Surgeon (R)* (**3,** 1944)

Wilber, Charles G., Ph.D. Med. Labs., Applied Physiology Branch, Army Chemical Center, Md. (**1,** 1947)

Wilbur, Karl M., Ph.D. Duke Univ., Dept of Zoology, Durham, N. C. *Prof.* (**1,** 1951)

Wilde, Walter S., Ph.D. Tulane Univ. School of Medicine, Station 20, New Orleans, La. *Prof. of Physiology.* (**1,** 1944)

Wilder, Russell M., Ph.D., M.D. Natl. Insts. of Health, Inst. of Arthritis and Metabolic Diseases, Bethesda 14, Md. *Dir.* (**1,** 1921; **4R,** 1924; **5,** 1933)

Wilens, Sigmund L. New York Univ.-Bellevue Med. Center, 477 First Ave., New York City 16. *Prof. and Dir. of Pathology.* (**4,** 1952)

Wiley, Frank H., Ph.D. Federal Security Agency, Food and Drug Admin., Washington 25, D. C. *Chief, Div. of Pharmaceutical Chemistry.* (**2,** 1933)

Wilhelmi, Alfred E., Ph.D. Emory Univ. School of Medicine, Emory Univ., Ga. *Prof. of Biochemistry.* (**2,** 1942)

Wilhelmj, Charles Martel, M.D. Creighton Univ. School of Medicine, Omaha, Neb. *Prof. of Physiology.* (**1,** 1931)

Wilkerson, Vernon A., M.D., Ph.D. Med. Arts Bldg., 61 K St., N. W., Washington, D. C. *Lecturer, Dept. of Physiology, Howard Univ. Med. School.* (**2,** 1936)

Williams, Carroll M., Ph.D., M.D. Harvard Univ., Biological Labs., Cambridge, Mass. *Asst. Prof. of Zoology.* (**1,** 1947)

Williams, George Z. Med. College of Virginia, Richmond 19. *Prof. of Pathology; Dir., Depts. of Oncology and Clin. Pathology and of Hospital Labs.* (**4,** 1952)

Williams, Harold H., Ph.D. Cornell Univ., Savage Hall, Ithaca, N. Y. *Prof. of Biochemistry.* (**2,** 1938; **5,** 1936)

Williams, Horatio B., M.D., Sc.D. Box 893, Greenwich, Conn. *Dalton Prof. Emeritus of Physiology, Columbia Univ.* (**1,** 1912)

Williams, J. W., Ph.D. Univ. of Wisconsin, Chemistry Bldg., Madison. *Prof. of Chemistry.* (**2,** 1944)

Williams, Jesse N., Jr., Ph.D. Univ. of Wisconsin, Dept. of Biochemistry, Madison. *Asst. Prof.* (**2,** 1951)

Williams, Ray D., M.S., M.D. 14 Danfield Rd. (Ladue), Mo. *Asst. Prof. of Clin. Medicine, Washington Univ.* (**5,** 1941)

Williams, Robert Hardin, M.D. Univ. of Washington, Dept. of Medicine, Seattle. *Prof. and Exec. Officer.* (**4,** 1940)

Williams, Robert R., D.Sc. 297 Summit Ave., Summit, N. J. *Dir. of Grants, Research Corp.* (**2,** 1919; **5,** 1941)

Williams, Roger J., Ph.D. Univ. of Texas, Dept. of Chemistry, Austin. *Prof. of Chemistry; Dir. of Biochemical Inst.* (**2,** 1931)

Williams, W. Lane, Ph.D. Univ. of Minnesota Med. School, Minneapolis 14. *Assoc. Prof. of Anatomy.* (**1,** 1947; **4,** 1947)

Williams, William L., Ph.D. Lederle Labs., Pearl River, N. Y. *Research Biochemist.* (**2,** 1951)

Willmon, Thomas L., M.D. U. S. Naval Med. Research Inst., Naval Med. Center, Bethesda, Md. *Capt., MC, USN; Exec. Officer.* (**1,** 1951)

Wills, J. H., Ph.D. Med. Labs., Pharmacology Branch, Army Chemical Center, Md. *Chief.* (**1,** 1943; **3,** 1951)

Wilson, Armine T. Alfred I. DuPont Inst., Wilmington 99, Del. *Chief Bacteriologist; Pediatrician-in-Chief.* (**6,** 1949)

Wilson, David Wright, Ph.D. Univ. of Pennsylvania Med. School, Philadelphia. *Benjamin Rush Prof. of Physiological Chemistry.* (**1,** 1915; **2,** 1915)

Wilson, Eva D., Ph.D. 256 E. Irvin Ave., State College, Pa. *Prof. and Head of Dept. of Foods and Nutrition, School of Home Economics, Pennsylvania State College.* (**5,** 1947)

Wilson, Frank N., M.D. Univ. Hospital, Ann Arbor, Mich. *Prof. of Medicine, Univ. of Michigan.* (**4,** 1925)

Wilson, Irwin B., Ph.D. 3840 Greystone Ave., New York City 63. *Asst. Prof., Columbia Univ., College of P. & S.* (**2,** 1952)

Wilson, J. Walter, Ph.D. Brown Univ., Dept. of Biology, Providence 12, R. I. *Chairman of Dept. of Biology; F. L. Day Prof. of Biology.* (**1,** 1949; **4,** 1950)

Wilson, John W., Ph.D. Wright-Patterson Air Force, Aero-Med. Lab., Dayton, Ohio. *Research Physiologist.* (**1,** 1948)

Wilson, P. W., Ph.D. Univ. of Wisconsin, Dept. of Bacteriology, Madison. *Prof. of Bacteriology.* (**2,** 1939)

Wilson, Robert H., Ph.D. U. S. Dept. of Agriculture, Western Regional Research Lab., 800 Buchanan St., Albany, Calif. *Sr. Pharmacologist.* (**3,** 1937)

Winbury, Martin M., Ph.D. G. D. Searle and Co., Div. of Biological Research, P. O. Box 5110, Chicago 80, Ill. *Pharmacologist.* (**3,** 1952)

Winder, Claude V., Sc.D. Parke Davis and Co., Detroit, Mich. *Research Pharmacologist.* (**1,** 1938; **3,** 1948)

Windle, William Frederick, Ph.D. Baxter Labs., Morton Grove, Ill. *Scientific Dir.* (**1,** 1937)

Winnick, Theodore, Ph.D. Univ. of Iowa Med. School, Iowa City. *Assoc. Prof. of Biochemistry, Radiation Research Lab.* (**2,** 1946)

Winter, Charles A., Ph.D. Merck Inst. for Therapeutic Research, Rahway, N. J. *Head, Dept. of Pharmacology.* (**1,** 1940; **3,** 1952)

Winter, Irwin Clinton, Ph.D., M.D. G. D. Searle and Co., P. O. Box 5110, Chicago 80, Ill. *Dir. of Clin. Research.* (**3,** 1941)

Winternitz, M. C., M.D. Natl. Research Council, 2101 Constitution Ave., Washington 25, D. C. *Chairman, Div. of Med. Sciences.* (**4,** 1913)

Wintersteiner, Oskar, Ph.D. Squibb Inst. for Med. Research, New Brunswick, N. J. *Member, Head, Div. of Organic Chemistry.* (**2,** 1930)

Wintrobe, Maxwell Myer, M.D., Ph.D. 175 E. 21st St., S., Salt Lake City 15, Utah. *Prof. and Head, Dept. of Internal Medicine, Univ. of Utah College of Medicine; Dir., Lab. for Study of Hereditary and Metabolic Disorders.* (**4,** 1940)

Winzler, Richard J., Ph.D. Univ. of Illinois, College of Medicine, 1853 W. Polk St., Chicago 12. *Prof. and Head of Dept. of Biochemistry.* (**2,** 1946)

Wise, George H., Ph.D. North Carolina State College, Dept. of Animal Industry, Raleigh. *Prof.* (**5,** 1951)

Wiseman, Bruce Kenneth, M.D. Ohio State Univ., Kinsman Hall, Columbus. *Prof. and Chairman of Dept. of Medicine; Asst. Dir. of Med. Research.* (**4,** 1932)

Wislocki, George B., M.D. Harvard Univ. Med. School, 25 Shattuck St., Boston, Mass. *Parkman Prof. of Anatomy.* (**1,** 1924)

Wisseman, Charles L., Jr., M.D. Army Med. Service Grad. School, Dept. of Virus and Rickettsial Diseases, Walter Reed Army Med. Center, Washington 12, D. C. *Chief, Chemotherapeutic Research Section; Instr. in Medicine, Georgetown Univ. Med. School.* (**6,** 1952)

Wissler, Robert W., M.D., Ph.D. Univ. of Chicago, 950 E. 59th St., Chicago 37, Ill. *Asst. Prof. of Pathology.* (**4,** 1949)

Witebsky, Ernest, M.D. Buffalo General Hospital, 100 High St., Buffalo, N. Y. *Prof. and Head of Dept. of Bacteriology and Immunology.* **(6, 1935)**

Witter, Robert F., Ph.D. Univ. of Rochester School of Medicine, Dept. of Biochemistry, Rochester 20, N. Y. *Asst. Prof.* **(2, 1951)**

Wittich, Fred W., M.D. 401 LaSalle Med. Bldg., Minneapolis 2, Minn. *Sec.-Treas. of American College of Allergists; Chairman of Exec. Committee, International Assoc. of Allergists.* **(6, 1944)**

Wolbach, S. Burt, M.D. Children's Hospital, Boston, Mass. *Shattuck Prof. Emeritus of Pathological Anatomy, Harvard Med. School; Dir. of Nutritional Research, Children's Hospital.* **(4,** prior to 1920)

Wolf, Abner, M.D. Columbia Univ. College of Physicians and Surgeons, New York City 32. *Prof. of Neuropathology.* **(4, 1948)**

Wolf, Arnold Veryl, Ph.D. Army Med. Service Grad. School, Walter Reed Army Med. Center, Washington 12, D. C. **(1, 1946)**

Wolf, Stewart, M.D. 644 N.E. 14th St., Oklahoma City, Okla. **(1, 1948)**

Wolfe, Harold Reclus, Ph.D. Univ. of Wisconsin, Madison 6. *Prof. of Zoology.* **(6, 1952)**

Wolff, Harold G., M.D., M.A. New York Hospital, 525 E. 68th St., New York City. *Assoc. Prof. of Medicine, Cornell Univ. Med. College; Assoc. Attending Physician, New York Hospital.* **(1,** 1930; **3,** 1942)

Wolff, William A., Ph.D. Wake Forest College, Bowman Gray School of Medicine, Winston-Salem 7, N. C. *Asst. Prof. of Biochemistry.* **(2,** 1947)

Woll, Ephraim, M.D. Univ. of Vermont College of Medicine, Burlington. *Assoc. Prof. of Pathology; Dir. of Labs., Mary Fletcher Hospital.* **(4,** 1951)

Wollenberger, Albert, Ph.D. Carlsberg Lab., Copenhagen, Denmark. **(3,** 1951)

Wolterink, Lester F., Ph.D. Michigan State College, Dept. of Physiology, East Lansing. *Assoc. Prof.* **(1,** 1951)

Womack, Madelyn, Ph.D. U. S. Dept. of Agriculture, Agricultural Research Admin., Foods and Nutrition Div., Washington 25, D. C. *Biochemist.* **(5,** 1947)

Wood, Earl H., Ph.D., M.D. Mayo Foundation, Rochester, Minn. *Assoc. Prof. of Physiology, Grad. School, Univ. of Minnesota; Consultant in Physiology, Mayo Clinic.* **(1,** 1943; **3,** 1949)

Wood, Harland G., Ph.D. Western Reserve Univ., Dept. of Biochemistry, Cleveland 6, Ohio. *Prof.* **(2,** 1944)

Wood, Horatio C., Jr., M.D., Ph.M. 319 S. 41st St., Philadelphia 4, Pa. *Prof. of Pharmacology, Philadelphia College of Pharmacy and Science.* (*retired*) **(3R,** 1908)

Wood, John L., Ph.D. Univ. of Tennessee School of Biological Sciences, 875 Monroe Ave., Memphis 3. *Head, Dept. of Biochemistry.* **(2,** 1947)

Woodbury, Dixon M., Ph.D. Univ. of Utah College of Medicine, Dept. of Pharmacology, Salt Lake City 1. *Asst. Research Prof.* **(3,** 1951)

Woodbury, J. Walter, Ph.D. Univ. of Washington, School of Medicine, Dept. of Physiology and Biophysics, Seattle 5. *Instr.* **(1,** 1952)

Woodbury, Lowell A., Ph.D. Atomic Bomb Casualty Commission, APO 182, % Postmaster, San Francisco, Calif. **(1,** 1951)

Woodbury, Robert A., Ph.D., M.D. Univ. of Tennessee, Dept. of Pharmacology, Memphis. *Prof. and Chief of Div. of Pharmacology.* **(1,** 1936; **3,** 1941)

Woodcock, Alan H., Ph.D. QM Corps Climatic Research Lab., Lawrence, Mass. *Head, Biophysics and Instrumentation Units.* **(1,** 1952)

Woods, Alan C., M.D. Johns Hopkins Hospital, Wilmer Ophthalmological Inst., Baltimore, Md. *Dir. of Inst. and Ophthalmologist-in-Chief; Acting Prof. of Ophthalmology, Johns Hopkins Univ.* **(6,** 1918)

Woods, Ella, Ph.D. 1416 N. 13th St., Boise, Idaho. *Home Economist Emerita, Univ. of Idaho.* **(2,** 1925; **5,** 1933)

Woods, Lauren A., M.D., Ph.D. Univ. of Michigan, Dept. of Pharmacology, Ann Arbor. *Asst. Prof.* **(3,** 1949)

Woodward, Alvalyn E., Ph.D. Univ. of Michigan, Ann Arbor. *Asst. Prof. of Zoology.* **(1,** 1932)

Woodyatt, Rollin T., M.D. 237 E. Delaware Place, Chicago, Ill. *Prof. of Medicine, Rush Med. College, Univ. of Chicago.* **(2,** 1912)

Wooley, Jerald G. Natl. Insts. of Health, Exper. Biology and Medicine Inst., Bethesda, Md. *Sr. Biologist.* **(6,** 1949)

Woolley, D. Wayne, Ph.D. Rockefeller Inst. for Med. Research, 66th St. and York Ave., New York City. *Member.* **(2,** 1946; **5,** 1941)

Woolsey, Clinton N., M.D. Univ. of Wisconsin, Service Memorial Insts., Madison. *Charles Sumner Slichter Research Prof. of Neurophysiology.* **(1,** 1938)

Workman, William G., Ph.D. Natl. Insts. of Health, Bethesda 14, Md. *Med. Dir., USPHS.* **(6,** 1952)

Wortis, S. Bernard, M.D. New York Univ. College of Medicine, Dept. of Psychiatry, New York City 16. *Prof. and Chairman of Dept. of Psychiatry; Dir. of Psychiatric Div. of Bellevue Hospital.* **(1,** 1947)

Wright, Angus, M.D. 1414 S. Hope St., Los Angeles 15, Calif. *Pathologist, California Hospital.* **(4,** 1935)

Wright, Arthur W., M.D. Albany Med. College, New Scotland Ave., Albany, N. Y. *Prof. of Pathology and Bacteriology.* **(4,** 1941)

Wright, Charles Ingham, Ph.D. Natl. Insts.

of Health, Bethesda, Md. *Sr. Pharmacologist, USPHS.* (**1,** 1935; **3,** 1936)

Wright, Ernest B., Ph.D. Univ. of Rochester, School of Medicine and Dentistry, Rochester 20, N. Y. *Instr. in Physiology.* (**1,** 1952)

Wright, George G., Ph.D. Camp Detrick, Frederick, Md. *Chief, Special Procedures Branch, S-Div.* (**6,** 1943)

Wright, George W., M.D. Edward L. Trudeau Foundation, Saranac Lake, N. Y. *Head, Dept. of Physiology.* (**1,** 1952)

Wright, Harold N., Ph.D. Univ. of Minnesota, Minneapolis. *Prof. of Pharmacology.* (**3,** 1931)

Wright, Lemuel D., Ph.D. Sharp and Dohme, Inc., Research Div., West Point, Pa. *Dir. of Research in Microbiological Chemistry.* (**2,** 1946; **5,** 1946)

Wright, Paul A., Ph.D. Univ. of Michigan, Dept. of Zoology, Ann Arbor. *Asst. Prof.* (**1,** 1950)

Wright, Sydney L., Ph.D. Fox Hill Farm, Jamestown, R. I. (**2,** 1933)

Wu, Hsein, Ph.D. Med. College of Alabama, Birmingham 5. *Visiting Prof. of Biochemistry.* (**2,** 1950)

Wulff, V. J., Ph.D. Syracuse Univ., Dept. of Zoology, Syracuse, N. Y. (**1,** 1949)

Wulzen, Rosalind, Ph.D. Oregon State College, Corvallis. *Asst. Prof. of Zoology.* (**1R,** 1916)

Wyckoff, Ralph W. G., Ph.D. USPHS, Natl. Insts. of Health, Bethesda, Md. *Sr. Scientist.* (**6,** 1940)

Wyman, Jeffries, Jr., Ph.D. Harvard Univ., Biological Labs., Cambridge, Mass. *Assoc. Prof. of Zoology.* (**1,** 1928)

Wyman, Leland C., Ph.D. Boston Univ., College of Liberal Arts, 675 Commonwealth Ave., Boston, Mass. *Prof. of Biology.* (**1,** 1927)

Wynne, Arthur M., Ph.D. Univ. of Toronto, Dept. of Biochemistry, Toronto, Ontario, Canada. *Prof. of Biochemistry.* (**2,** 1940)

Wyss, Orville, Ph.D. Univ. of Texas, Dept. of Bacteriology, Austin. *Prof.* (**2,** 1951)

Yager, Robert H., V.M.C. Army Med. Service Grad. School, Army Med. Center, Washington 12, D. C. *Lt. Col.; Dir., VeterinaryDiv.* (**6,** 1950)

Yerkes, Robert M., Ph.D. Yale Univ. School of Medicine, New Haven, Conn. *Prof. Emeritus of Psychobiology, Yale Univ.* (**1R,** 1904)

Yonkman, Frederick F., Ph.D., M.D. Ciba Pharmaceutical Products, Inc., Summit, N. J. *Dir. of Research at Ciba; Lecturer in Pharmacology, Columbia Univ. College of Physicians and Surgeons.* (**3,** 1931)

Youmans, John B., M.D. Vanderbilt Univ. School of Medicine, Nashville, Tenn. *Dean.* (**5,** 1948)

Youmans, William Barton, Ph.D., M.D. Univ. of Wisconsin Med. School, Madison 6. *Prof. of Physiology.* (**1,** 1939; **3,** 1949)

Young, A. G., Ph.D., M.D. 520 Commonwealth Ave., Boston, Mass. *Asst. Prof. of Therapeutics, Boston Univ. School of Medicine; Med. Dir. of Corey Hill Hospital, Brookline.* (**3,** 1925)

Young, Allan C., Ph.D. Univ. of Washington, Dept. of Physiology and Biophysics, Seattle 5. *Asst. Prof.* (**1,** 1952)

Young, E. G., Ph.D. Natl. Research Council of Canada, Maritime Regional Lab., Halifax, N. S. *Director.* (**2,** 1925)

Youngner, Julius Stuart, M.S., Sc.D. Univ. of Pittsburgh, School of Medicine, Virus Research Lab., Pittsburgh, Pa. *Asst. Research Prof. of Bacteriology.* (**6,** 1950)

Yuile, Charles L., M.D., C.M. Univ. of Rochester School of Medicine and Dentistry. Rochester, N. Y. *Assoc. Prof. of Pathology.* (**4,** 1941)

Zamecnik, Paul, M.D. Massachusetts General Hospital, Fruit St., Boston 14, Mass. *Assoc. Prof. of Medicine, Harvard Univ.* (**2,** 1950)

Zamenhof, Stephen, Ph.D. Columbia Univ., College of Physicians and Surgeons, Dept. of Biochemistry, 630 West 168th St., New York City 32. *Asst. Prof.* (**2,** 1951)

Zapata-Ortiz, Vicente, M.D., D.M. Faculty of Medicine, Apartado No. 2694, Lima, Peru. *Prof. of Pharmacology.* (**3,** 1951)

Zapp, John A., Jr., Ph.D. 916 Harper Ave., Drexel Hill, Pa. *Asst. Dir., Haskell Lab. of Industrial Toxicology, E. I. duPont de Nemours & Co.* (**1,** 1950)

Zarrow, M. X., Ph.D. Purdue Univ., Dept. of Biological Sciences, Lafayette, Ind. (**1,** 1949)

Zechmeister, L., Dr. Ing. California Inst. of Technology, Pasadena. *Prof. of Organic Chemistry.* (**2,** 1941)

Zeckwer, Isolde T., M.D. Univ. of Pennsylvania School of Medicine, Philadelphia. *Assoc. Prof. of Pathology.* (**1,** 1934; **4,** 1927)

Zeidman, Irving, M.D. Univ. of Pennsylvania School of Medicine, Dept. of Pathology, Philadelphia. *Associate.* (**4,** 1949)

Zeldis, Louis J., M.D. Univ. of California, Med. Center, Dept. of Pathology, Los Angeles 24. (**4,** 1945)

Zeller, Ernest A., M.A., Ph.D. Northwestern Univ. Med. School, 303 E. Chicago Ave., Chicago 11. *Abbott Assoc. Prof. of Biochemistry.* (**2,** 1951)

Zichis, Joseph, Ph.D. Markham Labs., 9246 S. Vincennes Ave., Chicago 20, Ill. *Dir.* (**6,** 1951)

Zierler, Kenneth L., M.D. Johns Hopkins Hospital, Dept. of Medicine, Baltimore 5, Md. *Asst. Prof., Environmental Medicine; Instr. in Medicine, Johns Hopkins Univ.* (**1,** 1951)

Zilversmit, D. B., Ph.D. Univ. of Tennessee, Dept. of Physiology, Memphis 3. *Asst. Prof.* (**1,** 1949)

Zimmerman, Harry M., M.D. Montefiore Hospital, Gun Hill Rd., New York City 67. *Chief, Lab. Div.; Prof. of Pathology, College of Physicians and Surgeons, Columbia Univ.* (**4,** 1933)

Zirkle, Raymond E., Ph.D. Univ. of Chicago, Chicago, Ill. *Prof. of Botany and Dir. of Inst. of Radiobiology and Biophysics.* **(1,** 1948)

Zittle, Charles A., Ph.D. U. S. Dept. of Agriculture, Eastern Regional Research Lab., Philadelphia 18, Pa. *Chemist, Protein Div.* **(2,** 1946)

Zubrod, Charles G., M.D. Johns Hopkins Univ., School of Medicine, 710 N. Washington St., Baltimore 5, Md. *Asst. Prof. of Pharmacology and of Medicine.* **(3,** 1952)

Zucker, Marjorie B., Ph.D. New York Univ. College of Dentistry, Dept. of Physiology, 209 E. 23rd St., New York City 10. **(1,** 1947)

Zweifach, Benjamin W., Ph.D. New York Univ., College of Arts and Sciences, Dept. of Biology, New York City 3. **(1,** 1945)

Zwemer, Raymund L., Ph.D. 5003 Battery Lane, Bethesda 14, Md. *Chief, Science Div., Library of Congress, Washington, D. C.* **(1,** 1930)

SUMMARY OF MEMBERSHIP

The American Physiological Society	1364
American Society of Biological Chemists	982
American Society for Pharmacology and Experimental Therapeutics	535
The American Society for Experimental Pathology	377
American Institute of Nutrition	396
The American Association of Immunologists	417
Total membership	4071

DECEASED MEMBERS

Austin, J. Harold (**2,** 1922) March 29, 1952

Barrera, S. Eugene (**1,** 1937) May 25, 1952

Blake, Francis G. (**4,** prior to 1920; **6,** 1921) February 1, 1952

Buchanan, J. William (**1,** 1927) June 27, 1952

Castillo, Julio C., (**3,** 1950) January 3, 1952

Christian, Henry A. (**4,** 1924) August 24, 1951

Concepcion, Isabelo (**1,** 1919) January 30, 1952

Dakin, Henry D. (**2,** 1906) February 10, 1952

Dobriner, Konrad (**2,** 1946) March 10, 1952

Glaser, O. C. (**1R,** 1913) March, 1951

Groedel, Franz M. (**1,** 1949) October 12, 1951

Halliday, Nellie (**5,** 1933) April 25, 1952

Hektoen, Ludvig (**6,** 1919) November, 1951

Hendrix, Byron M. (**2,** 1920) January 17, 1952

Hill, Edgar S. (**2,** 1936) March 13, 1952

Kelser, Raymond A. (**4,** 1932) April 16, 1952

Lillie, Ralph S. (**1R,** 1905; **2,** 1913) March 19, 1952

Mallory, Tracy B. (**4,** 1937) November 11, 1951

Mackenzie, George M. (**6R,** 1912)

MacNabb, A. L. (**6,** 1941) February 16, 1952

McCoy, George W. (**6H,** 1916) April 3, 1952

Nathanson, Morris H. (**3,** 1940) April 24, 1952

Norris, Earl R. (**2,** 1938) March 30, 1952

Ort, John M. (**2,** 1932) August 25, 1951

Osborne, Stafford L. (**1R,** 1941) October 25, 1952

Salter, William T. (**1,** 1933; **3,** 1942; **5,** 1934) July 30, 1952

Sawyer, Wilbur A. (**4,** 1930) November 12, 1951

Scammon, Richard E. (**1R,** 1923) September 12, 1952

Sherrington, Sir Charles S. (**1H,** 1904) March 4, 1952

Slaughter, Donald (**3,** 1938) June 6, 1952

Steel, Matthew (**2,** 1909) March 15, 1952

Tweedy, Wilbur R. (**2,** 1931) November 23, 1951

Walker, Ernest L. (**3R,** 1931) January 19, 1952

ADDENDA

The following changes of address have been received since the closing date for Directory listings.

Axelrod, Bernard, Ph.D. U. S. Dept. of Agriculture, Western Regional Research Lab., Albany 6, Calif. (**2,** 1948)

Bass, Allan D., M.D. Vanderbilt Univ., School of Medicine, Nashville, Tenn. (**3,** 1944)

Bauer, J. H., M.D. The Rockefeller Foundation, 49 W. 49th St., New York City 20. (**4,** 1935)

Beazell, J. M., Ph.D., M.D. 935 Cheyenne Rd., Colorado Springs, Colo. (**1,** 1939)

Beutner, R., Ph.D. Western Massachusetts College of Pharmacy, Willimansett. (**1R,** 1924; **3,** 1924)

Bliss, Eleanor A., Sc.D. Bryn Mawr College, Dept. of Biology, Bryn Mawr, Pa. (**6,** 1931)

Booher, Lela E., Ph.D. 4858 E. 13th St., Tucson, Ariz. (**2,** 1933; **5,** 1933)

Briody, Bernard A., Ph.D. Hahnemann Med. College, Philadelphia, Pa. (**6,** 1951)

Brown, J. H. U., Ph.D. Emory Univ., School of Medicine, Dept. of Physiology, Emory, Ga. (**1,** 1952)

Carruthers, Christopher, Ph.D. Wernse Lab. for Cancer Research, 660 S. Kingshighway, St. Louis 10, Mo. (**2,** 1948)

Cochran, K. W., Ph.D. Univ. of Michigan, School of Public Health, Dept. of Epidemiology, Ann Arbor. (**3,** 1952)

Ederstrom, H. E., Ph.D. Univ. of North Dakota, School of Medicine, Dept. of Physiology and Pharmacology, Grand Forks. (**1,** 1949)

Engel, Ruben W., Ph.D. Virginia Polytechnic Inst., Dept. of Biochemistry and Nutrition, Blacksburg. (**5,** 1948)

Feller, David D., Ph.D. Veterans Admin. Hospital, Radioisotope Unit, Seattle 8, Wash. (**1,** 1951)

Fontaine, Thomas D., Ph.D. U. S. Dept. of Agriculture, Eastern Regional Research Lab., Chestnut Hill Station, Philadelphia 18, Pa. (**2,** 1946)

Frankel, Edward M., Ph.D. 190 Riverside Drive, New York City 24. (**2,** 1916)

Frieden, Edward H., Ph.D. New England Med. Center, 25 Bennett St., Boston 11, Mass. (**2,** 1950)

Greenwald, Isidor, Ph.D., 8 Stoneyside Dr., Larchmont, N. Y. (**2,** 1912; **5,** 1933)

Hinrichs, M. A., Ph.D., M.D. Univ. of Illinois, Women's Gymnasium, Urbana. (**1,** 1928)

Hockett, Robert C., Ph.D. 72 Howell Ave., Larchmont, N. Y. (**2,** 1950)

Hooker, Sanford B., M.D. Bradford, Vt. (**6R,** 1918)

Johnson, Frank H., Ph.D., National Science Foundation, Washington 25, D. C. (**1,** 1942)

Kilborn, L. G., M.D., Ph.D. Univ. of Hong Kong, Dept. of Physiology, Hong Kong, China. (**1,** 1928)

Kornberg, Arthur, M.D. (after January 1, 1953). Washington Univ., School of Medicine, St. Louis 10, Mo. (**2,** 1949)

Kydd, D. M., M.D. State Univ. of New York Med. Center at New York, Dept. of Internal Medicine, Brooklyn 3. (**5,** 1934)

Lambert, Robert A., M.D. Greensboro, Ala. (**4,** 1922)

Lorber, Victor, M.D. Univ. of Minnesota, School of Medicine, Dept. of Physiology, Minneapolis 14. (**1,** 1944)

Mangun, George H., Ph.D. Warner Hudnut, Inc., 113 W. 18th St., New York City. (**2,** 1947)

Mattill, Henry A., Ph.D. Finlay Institute, Havana, Cuba. (**1,** 1913; **2,** 1909; **5,** 1933)

McKee, Ralph Wendell, Ph.D. (after January 1, 1953). Univ. of California, Med. Center, Dept. of Physiological Chemistry, Los Angeles 24. (**2,** 1946)

Moxon, Alvin L., Ph.D. Ohio Agricultural Experiment Station, Wooster. (**2,** 1944)

Peters, John P., M.D. 789 Howard Ave., New Haven 11, Conn. (**2,** 1922)

Racker, Efraim, M.D. Yale Univ., School of Medicine, 333 Cedar St., New Haven, Conn. (**2,** 1948)

Rapoport, S., M.D. Humboldt Univ., Physiologisch-chemisches Inst., Berlin N. 4, Germany. (**2,** 1941)

Rasmussen, A. T., Ph.D. 4636 Indianola Way, La Cañada, Calif. (**1,** 1919)

Reese, John D., M.D. Beverly Hills Clinic, Beverly Hills, Calif. (**4,** 1949)

Rioch, David M., M.D. Army Med. Service Grad. School, Walter Reed Army Med. Center, Washington 12, D.C. (**1,** 1931)

Sayers, George, Ph.D. Western Reserve Univ., School of Medicine, Dept. of Physiology, Cleveland 6, Ohio. (**1,** 1948; **3,** 1947)

Singer, Thomas P., Ph.D. Univ. of Wisconsin, Enzyme Inst., Madison. (**2,** 1948)

Waksman, Byron H., M.D. 8 Field Rd., Lexington, Mass. (**6,** 1950)

LIST OF MEMBERS BY LOCATION

ALABAMA

Auburn

ALABAMA POLYTECHNIC INST.

R. W. Engel, 5
E. L. Hove, 5
W. D. Salmon, 2, 5
H. E. Sauberlich, 2, 5
A. E. Schaefer, 5

Birmingham

MED. COLLEGE OF ALABAMA

R. D. Baker, 4
S. B. Barker, 1
R. J. Bing, 1
J. M. Bruhn, 1
E. B. Carmichael, 1, 2
R. L. Driver, 1, 3
K. Hare, 1
P. Hitchcock, 3
L. L. Langley, 1
J. S. McLester, 5
W. W. Pigman, 2
T. W. Robinson, 1
R. S. Teague, 3
E. N. Todhunter, 5
H. Wu, 2

Alabama—Unclassified

A. E. Casey, 4
T. D. Spies, 3, 4, 5

ALASKA

L. Irving, 1
K. Rodahl, 1

ARIZONA

A. R. Kemmerer, 5
C. L. Hess, 1R
A. L. Lieberman, 1

ARKANSAS

Fayetteville and Little Rock

UNIV. OF ARKANSAS

P. L. Day, 2, 5
C. E. Duffy, 6
F. E. Emery, 1
P. L. Ewing, 3
E. C. Jungck, 1
M. C. Kik, 5
A. Nettleship, 4
H. C. Nicholson, 1
J. Sacks, 1, 3
L. D. Seager, 3
B. Sure, 2, 5

Arkansas—Unclassified

T. P. Singer, 2
J. T. Skinner, 2

CALIFORNIA

Albany

WESTERN REGIONAL LAB., USDA

G. Alderton, 2
A. M. Ambrose, 3
F. DeEds, 2, 3
O. H. Emerson, 2
R. E. Feeney, 2
J. D. Greaves, 2
E. F. Jansen, 2
J. C. Lewis, 2
H. Lineweaver, 2
H. P. Lundgren, 2
H. S. Olcott, 2
S. Schwimmer, 2
R. H. Wilson, 3

Berkeley

UNIV. OF CALIFORNIA

F. W. Allen, 2
H. A. Barker, 2
L. L. Bennett, 1
M. M. Brooks, 1
M. Calvin, 2
F. H. Carpenter, 2
I. L. Chaikoff, 1
E. E. Conn, 2
M. Doudoroff, 2
E. L. Duggan, 2
S. S. Elberg, 6
H. M. Evans, 1
H. O. L. Fischer, 2
J. Fong, 6
H. L. Fraenkel-Conrat, 2
C. R. Grau, 5
D. M. Greenberg, 2, 5
W. Z. Hassid, 2
H. B. Jones, 1
P. L. Kirk, 2
C. A. Knight, 2
A. P. Krueger, 4, 6
J. H. Lawrence, 1
S. Lepkovsky, 2, 5
C. H. Li, 2
A. F. Morgan, 2, 5
M. M. Nelson, 5
J. H. Northrop, 2
R. Okey, 2, 5
J. M. D. Olmsted, 1
N. Pace, 1
W. O. Reinhardt, 1
M. E. Simpson, 1
W. M. Stanley, 2
P. K. Stumpf, 2
E. S. Sundstroem, 2R
H. Tarver, 2

BERKELEY—UNCLASSIFIED

L. J. Bogert, 2
H. C. Bradley, 1R, 2
F. R. Goetzl, 1
E. L. Hansen, 3
E. H. Lennette, 4, 6
W. E. Ward, 6

Davis

UNIV. OF CALIFORNIA

H. H. Cole, 1
J. B. Enright, 6
H. Goss, 2, 5
M. Kleiber, 1, 5
F. H. Kratzer, 5
S. A. Peoples, 3

La Jolla

SCRIPPS INST. OF OCEANOGRAPHY AND METABOLIC CLINIC

G. R. Bartlett, 2
N. W. Rakestraw, 2
A. N. Wick, 2

Los Angeles-Pasadena

CALIFORNIA INST. OF TECH.

B. Axelrod, 2
J. Bonner, 2
H. Borsook, 2
D. H. Campbell, 6
J. W. Dubnoff, 2
N. H. Horowitz, 2
C. G. Niemann, 2
A. Tyler, 6
A. Van Harreveld, 1
C. A. G. Wiersma, 1
L. Zechmeister, 2

CEDARS OF LEBANON HOSP.

N. B. Friedman, 4
H. Goldblatt, 1, 4
E. Haas, 2
M. Prinzmetal, 3
P. E. Rekers, 4

LOS ANGELES COUNTY HOSP.

H. E. Pearson, 6
D. G. Simonsen, 2
A. G. Ware, 2

UNIV. OF CALIFORNIA

J. M. Adams, 4
T. H. Bullock, 1
F. Crescitelli, 1
M. S. Dunn, 2
J. Field, II, 1
H. B. Friedgood, 1
W. H. Griffith, 2, 5
V. E. Hall, 1
A. Hemingway, 1
T. L. Jahn, 1
B. G. Lamson, 4
D. B. Lindsley, 1
R. B. Livingston, 1
S. C. Madden, 4
H. W. Magoun, 1
J. F. Mead, 2
J. F. Nyc, 2
A. F. Rasmussen, 6
R. F. Riley, 3
S. Roberts, 1, 2
C. H. Sawyer, 1
W. A. Selle, 1
R. R. Sonnenschein, 1
C. M. Szego, 1
C. L. Taylor, 1
L. J. Zeldis, 4

UNIV. OF SOUTHERN CALIFORNIA

R. B. Alfin-Slater, 2
W. H. Bachrach, 1
H. J. Deuel, Jr., 1, 2, 5
D. R. Drury, 1
B. H. Ershoff, 5
J. B. Field, 2
E. Geiger, 5
P. O. Greeley, 1
D. M. Green, 1, 3
C. Hyman, 1
R. E. Knutti, 4
J. Marmorston, 6
W. Marx, 2
J. W. Mehl, 2
L. E. Morehouse, 1
M. G. Morehouse, 2
H. L. Motley, 1
S. S. Sobin, 1
C. H. Thienes, 3
L. E. Travis, 1
D. W. Visser, 1
A. Wright, 4

VETERANS ADMINISTRATION

W. G. Clark, 1, 3
J. O. Erickson, 6
R. L. Libby, 6

LOS ANGELES—UNCLASSIFIED

G. A. Alles, 1, 3
H. A. Davis, 4
O. J. Gollub, 6
T. J. Haley, 3
R. W. Lippman, 1
G. L. Maison, 1, 3
G. H. Marmont, 1
H. H. Mitchell, 6
J. W. Palmer, 6
B. O. Raulston, 3
F. H. Scharles, 5
J. W. Stutzman, 1, 3
J. Tilt, 5R

San Diego

H. A. Ball, 4
B. F. Stimmel, 2
H. M. Dixon, 4

San Francisco Area

MT. ZION HOSP.

G. R. Biskind, 4
S. O. Byers, 1
M. Friedman, 1

STANFORD UNIV.

A. L. Bloomfield, 3, 4
A. J. Cox, Jr., 4
W. C. Cutting, 3
R. H. Dreisbach, 3
H. W. Newman, 3
L. A. Rantz, 3
L. J. Rather, 4
D. A. Rytand, 3

UNIV. OF CALIFORNIA

H. H. Anderson, 3
H. R. Bierman, 3
W. L. Bostick, 4
J. L. Carr, 4
J. J. Eiler, 2
H. W. Elliott, 3
N. E. Freeman, 1
L. D. Greenberg, 2
C. H. Hine, 3
E. Jawetz, 6
C. H. Kempe, 6
W. J. Kerr, 3
H. I. Kohn, 1
B. Libet, 1
S. Lindsay, 4
M. E. Marsh, 1, 5
L. R. Melcher, 6
S. R. Mettier, 4
K. F. Meyer, 4, 6
H. D. Moon, 4
E. W. Page, 1
J. F. Rinehart, 4
P. P. T. Sah, 3
M. B. Shimkin, 4
D. B. Taylor, 3
E. L. Way, 3

SAN FRANCISCO—UNCLASSIFIED

R. W. Brauer, 3
W. H. Carnes, 4
Y. Chin, 3
H. E. Foster, 6
R. P. Mason, 6
R. J. Parsons, 4
C. F. Piel, 4
H. J. Ralston, 1
J. J. Sampson, 1
G. J. Stein, 6
A. B. Stockton, 3
J. S. Thatcher, 1
L. A. Woodbury, 1

Santa Barbara

F. E. Bischoff, 2, 5
J. E. Cushing, 6
A. E. Koehler, 2
M. Sahyun, 2

Stanford-Palo Alto

STANFORD UNIV.

J. P. Baumberger, 1
C. M. Child, 1R
J. M. Crismon, 1
G. A. Feigen, 1
C. S. French, 1, 2
F. A. Fuhrman, 1
R. Grant, 1
A. C. Griffin, 2
H. S. Loring, 2
J. M. Luck, 2
W. H. Manwaring, 4, 6
S. Raffel, 6
O. H. Robertson, 4R
E. W. Schultz, 4, 6
J. R. Slonaker, 1R
R. E. Swain, 2
E. L. Tatum, 2
F. W. Weymouth, 1R

California—Unclassified

H. J. Almquist, 2, 5
B. W. Beadle, 2
W. M. Cahill, 2
P. A. Cavelti, 6
G. W. Clark, 2
M. C. D'Amour, 1
P. M. Dawson 1R
O. L. Huddleston, 1
H. Kabat, 1
R. A. Kocher, 2
W. S. Lawrence, 3
D. F. Marsh, 3
H. McKennis, Jr., 2
J. R. Poppen, 1
A. M. Snell, 4
E. B. Tuohy, 3

COLORADO

Denver

UNIV. OF COLORADO

F. A. Cajori, 2, 5
F. D'Amour, 1
W. B. Draper, 1, 3
J. W. Gersten, 1
R. M. Hill, 2
J. H. Holmes, 1
R. C. Lewis, 2, 5
B. B. Longwell, 2
C. A. Maaske, 1
C. G. Mackenzie, 1, 2, 5
J. F. MacKenzie, 2
J. B. McNaught, 4
G. Meiklejohn, 6
R. M. Mulligan, 4
R. Thompson, 6
R. W. Virtue, 2
R. W. Whitehead, 1, 3

DENVER—UNCLASSIFIED

B. O. Barnes, 1
H. J. Corper, 2
G. K. Lewis, 5
F. R. Sabin, 1R

Colorado—Unclassified

H. Bourquin, 1
E. S. Fetcher, 1
F. X. Gassner, 1
C. R. Schmidt, 1

CONNECTICUT

Greenwich

A. A. Albanese, 2
H. L. Amoss, 4, 6
W. F. Loomis, 2
H. B. Williams, 1

Hartford

O. R. Benham, 6
W. T. Liberson, 1
S. J. Martin, 1
H. F. Pierce, 1
S. E. Pond, 1
K. H. Pribram, 1

New Haven

CONN. AGRIC. EXPER. STATION

C. I. Bliss, 3
R. B. Hubbell, 2, 5
H. B. Vickery, 2

YALE UNIV.

R. J. Anderson, 2
G. A. Baitsell, 1
D. H. Barron, 1
W. Bergmann, 2
E. J. Boell, 1
D. M. Bonner, 2
D. D. Bonnycastle, 3
B. A. Briody, 6
C. H. Bunting, 4
H. G. Cassidy, 2
G. R. Cowgill, 1, 2, 5
D. C. Darrow, 2
J. M. R. Delgado, 1
J. English, Jr., 2
L. T. Fairhall, 2
J. S. Fruton, 2
J. F. Fulton, 1
R. H. Green, 6

H. S. N. Greene, 4
H. W. Haggard, 1, 2
R. G. Harrison, 1
D. I. Hitchcock, 2
H. D. Hoberman, 2
D. M. Horstmann, 6
M. E. Howard, 4, 6
W. A. Krehl, 2, 5
D. M. Kydd, 5
H. Lamport, 1
C. N. H. Long, 1, 2
E. B. Man, 2
J. L. Melnick, 2, 6
W. R. Miles, 1
L. N. Nahum, 1
J. S. Nicholas, 1
J. C. Opsahl, 2
J. R. Paul, 4, 6
J. P. Peters, 2
P. D. Rosahn, 4
S. Simmonds, 2
G. H. Smith, 6
H. P. Treffers, 6
G. Van Wagenen, 1
R. M. Yerkes, 1R

NEW HAVEN—UNCLASSIFIED

L. P. Herrington, 1

Stamford

AMERICAN CYANAMID CO.

J. T. Litchfield, Jr., 3
T. H. Maren, 3
R. O. Roblin, Jr., 2, 6
P. G. Stansly, 2

Connecticut—Unclassified

H. L. Amoss, 4, 6
W. E. Anderson, 2R, 5
F. H. Bird, 5
E. G. Boettiger, 1
H. L. Campbell, 5R
F. L. Dey, 1
W. J. Elser, 6
R. A. Gortner, Jr., 5
C. S. Leonard, 3
M. C. Pease, 6
O. W. Richards, 1
J. M. Rogoff, 1R, 3R
E. Sachs, 1R
E. C. Schneider, 1R, 2R
M. R. Thompson, 3
A. J. Wakeman, 2
J. B. Watson, 1

DELAWARE

Wilmington

ALFRED E. DUPONT INST.

P. B. Hamilton, 2
A. T. Wilson, 6
J. A. Zapp, Jr., 1

Delaware—Unclassified

D. Marine, 1R, 4
J. Waddell, 2, 5

DISTRICT OF COLUMBIA AREA

GEORGE WASHINGTON UNIV.

E. C. Albritton, 1
H. Bacchus, 1
A. Griffin, 6
C. E. Leese, 1
L. W. Parr, 4
M. L. Robbins, 6
J. H. Roe, 2, 5
P. K. Smith, 2, 3
C. R. Treadwell, 2, 5

GEORGETOWN UNIV.

G. R. Bucher, 1
F. M. Forster, 1
W. C. Hess, 2
T. Koppanyi, 1, 3
C. F. Morgan, 1, 3
M. X. Sullivan, 2

HOWARD UNIV.

W. M. Booker, 1, 3
F. Friedberg, 2
J. L. Johnson, 1
A. H. Maloney, 3
L. M. Marshall, 2
V. A. Wilkerson, 2

NATL. RESEARCH COUNCIL—NATL. ACADEMY OF SCIENCES

D. W. Bronk, 1
R. K. Cannan, 2
M. O. Lee, 1, 5
L. Voris, 5
M. C. Winternitz, 4

U. S. Government

DEPT. OF AGRICULTURE

USDA, and Natl. Agric. Research Center, Beltsville, Md.

G. Adams, 5
M. Adams, 2
H. G. Barott, 5R
E. L. Batchelder, 5
H. R. Bird, 5
E. C. Callison, 5
C. M. Coons, 5
F. A. Csonka, 2
N. R. Ellis, 2, 5
D. L. Espe, 1
T. D. Fontaine, 2
R. M. Fraps, 1
A. M. Hartman, 5
M. L. Hathaway, 5
E. M. Hewston, 5
M. J. Horn, 2
P. E. Howe, 1, 2, 5R
G. W. Irving, Jr., 2
E. W. Ligon, Jr., 3
F. L. Meyer, 5
L. A. Moore, 5
A. A. Nelson, 4
H. Oldham, 5
O. Schreiner, 2
H. K. Stiebeling, 5
J. F. Sykes, 1
M. Womack, 5

DEPT. OF DEFENSE

Air Force

H. G. Armstrong, 1
D. E. Copeland, 1
A. P. Gagge, 1
A. H. Lawton, 1, 3

Army

E. L. Becker, 6
R. W. Clarke, 1
J. H. Defandorf, 3
I. Dubin, 4
G. Edsall, 6
M. G. F. Fuortes, 1
R. Galambos, 1
W. S. Gochenour, Jr., 6
L. R. Goldbaum, 3
H. G. Grady, 4
D. E. Gregg, 1
M. Hilleman, 6
E. B. Jackson, 6
J. F. Kent 6
C. J. Koehn, 5
H. A. Kuhn, 3
M. Landy, 6
J. A. Morris, 6
J. E. Smadel, 4, 6
H. F. Smetana, 4
E. R. B. Smith, 2
C. L. Wisseman, Jr., 6
A. Wolf, 6
R. H. Yager, 6

Navy

A. R. Behnke, 1
H. T. Karsner, 4
L. Levin, 2
R. A. Phillips, 1
F. H. Quimby, 1
O. E. Reynolds, 1
R. M. Taylor, 6
J. L. Tullis, 4

Naval Med. Research Inst., Bethesda, Md.

L. A. Barnes, 6
T. Benzinger, 1
D. J. Botts, 1
K. S. Cole, 1
D. E. Goldman, 1
E. Hardenbergh, 1
D. Minard, 1
M. F. Morales, 1
J. Sendroy, Jr., 2
T. L. Willmon, 1

FEDERAL SECURITY AGENCY

USPHS and Natl. Insts. of Health, Bethesda, Md.

G. H. Algire, 4
P. D. Altland, 1
E. M. Anderson, 1
H. B. Andervont, 4
C. B. Anfinsen, Jr., 2
W. M. Ashby, 6
H. D. Baernstein, 2
R. W. Bates, 2
J. H. Baxter, 3
M. Belkin, 3
B. R. Boone, 1
W. J. Bowen, 1
J. Bozicevich, 6
J. H. Bragdon, 4
S. E. Branham, 6
H. A. Braun, 3
G. Brecher, 4
G. M. Briggs, 5
B. B. Brodie, 2, 3
W. R. Bryan, 1, 4
D. Burk, 2
H. W. Chalkley, 1
J. M. Curtis, 2
F. S. Daft, 2, 5
A. J. Dalton, 4
D. J. Davis, 6
J. H. Draize, 3
T. B. Dunn, 4
H. M. Dyer, 2, 5
H. Eagle, 3, 4
W. R. Earle, 4
B. E. Eddy, 6
N. B. Eddy, 3
M. M. Eliot, 5
E. W. Emmart, 3
K. M. Endicott, 4

A. B. Eschenbrenner, 4
L. D. Felton, 6
O. G. Fitzhugh, 3
R. L. Grant, 2
J. P. Greenstein, 2
K. Habel, 6
O. Hayaishi, 2
L. A. Heppel, 2
R. Hertz, 1
B. Highman, 4
G. H. Hogeboom, 2
B. L. Horecker, 2
W. C. Hueper, 4
J. M. Hundley, 5
L. Karel, 3
E. O. Keiles, 2, 5
J. C. Keresztesy, 2, 5
S. S. Kety, 1, 3
L. Kilham, 6
O. L. Kline, 5
A. Kornberg, 2
G. L. Laqueur, 4
E. P. Laug, 2, 3
L. W. Law, 4
A. J. Lehman, 3
R. D. Lillie, 4
E. Lorenz, 4
R. C. MacCardle, 4
L. H. Marshall, 1
W. H. Marshall, 1
M. E. Maver, 2
A. H. Mehler, 2
A. Meister, 2
O. Mickelson, 2
G. B. Mider, 4
R. C. Millican, 3
H. P. Morris, 2, 5
A. A. Nelson, 4
E. M. Nelson, 2, 5
B. J. Olson, 6
W. I. Patterson, 2
L. J. Pecora, 1
W. A. Randall, 6
J. C. Reid, 2
M. E. Reid, 5
S. M. Rosenthal, 3
R. E. Scantlebury, 1
W. C. Schneider, 2
W. H. Sebrell, Jr., 2, 5
A. Seidell, 2
A. M. Shanes, 1
J. A. Shannon, 1, 3
M. J. Shear, 2
M. Silverman, 2
F. Smith, 1
W. W. Smith, 1
R. G. Smith, 3
H. A. Sober, 2
H. Specht, 1
S. S. Spicer, 1
E. R. Stadtman, 2
C. H. Steffee, 4
H. L. Stewart, 4
E. F. Stohlman, 3
H. Tabor, 3
W. T. S. Thorp, 4
C. D. Tolle, 5
S. Udenfriend, 2
W. F. Von Oettingen, 3
B. J. Vos, 3
H. Welch, 6
F. R. White, 2
J. White, 2
R. M. Wilder, 1, 4R, 5
F. H. Wiley, 2
J. G. Wooley, 6
W. G. Workman, 6
C. I. Wright, 1, 3
R. W. G. Wyckoff, 6

U. S. Government—Unclassified

W. V. Consolazio, 2
M. W. Kies, 2
B. G. King, 1
P. B. Pearson, 2, 5
C. R. Spealman, 1
A. M. Walker, 1, 3

District of Columbia—Unclassified

R. W. Berliner, 1
E. de Savitsch, 4
D. D. Donahue, 3
W. R. Duryee, 1
M. H. Friedman, 1
M. Harris, 2
L. W. Hazleton, 3
D. B. Jones, 2, 5R
L. G. Lederer, 1
G. B. Roth, 1R, 3R
S. L. Smith, 5
J. Steinhardt, 2
J. Warren, 6
R. L. Zwemer, 1

FLORIDA

Miami

Univ. of Miami

C. Brooks, 1, 3
D. H. Cook, 2
C. E. Lane, 1
E. Larson, 1, 3
V. H. Moon, 4

Miami—Unclassified

C. A. Cary, 2
N. Glickman, 1
G. T. Lewis, 2
L. G. Rowntree, 1R, 2, 3R

Tallahassee

Florida State Univ.

K. Dittmer, 2
F. R. Hunter, 1
M. R. Sandels, 5

Florida—Unclassified

N. R. Blatherwick, 1, 2, 5
G. R. Crisler, 1
T. J. Cunha, 5
G. K. Davis, 5
C. W. Duval, 4
W. H. Eddy, 2, 5R
A. Graybiel, 1
J. J. Griffiths, 6
J. P. Holt, 1
J. W. Jobling, 4R
K. S. Lashley, 1
P. H. Mitchell, 2
O. Riddle, 1R
E. U. Still, 1
W. J. Tomlinson, 4
R. M. Waters, 3R

GEORGIA

Atlanta

Emory Univ.

W. F. Friedewald, 4
J. L. Patterson, Jr., 1
M. Tager, 6

Augusta

Med. College of Georgia

R. P. Ahlquist, 1, 3
L. Allen, 1
A. P. Briggs, 2
P. Dow, 1
W. K. Hall, 2
W. F. Hamilton, 1
J. W. Remington, 1
S. A. Singal, 2
V. P. Sydenstricker, 5

Emory University

Emory Univ.

F. Binkley, 2
S. W. Gray, 1
J. Haldi, 1
M. Hines, 1
G. C. Knowlton, 1
J. L. Morrison, 3
E. Papageorge, 2
A. P. Richardson, 3
J. A. Russell, 1
J. Szepsenwol, 1
H. A. Walker, 3
A. E. Wilhelmi, 2

Georgia—Unclassified

G. Bachmann, 1R
J. H. Birnie, 1
C. E. Hamilton, 1
D. S. Martin, 6
R. E. Remington, 2, 5R
E. Smith, 1
M. Speirs, 5

HAWAII

Honolulu

G. O. Burr, 2, 5
W. A. Gortner, 2
A. R. Lamb, 2, 5
C. D. Miller, 5
T. Nelson, 6

IDAHO

Moscow

Univ. of Idaho

T. B. Keith, 5
A. C. Wiese, 5
E. Woods, 2, 5

ILLINOIS

Chicago Area

Abbott Research Labs.

R. D. Coghill, 2
G. M. Everett, 3
D. V. A. Frost, 2, 5
F. C. McIntire, 2
D. W. MacCorquodale, 2
A. E. Osterberg, 2
R. K. Richards, 1, 3
L. W. Roth, 1, 3
J. R. Schenck, 2

American Med. Assn.

R. Hussey, 4
F. T. Jung, 1
A. E. Smith, 3
R. T. Stormont, 3

Argonne Natl. Lab.

A. M. Brues, 1
H. Lisco, 4
H. M. Patt, 1
D. E. Smith, 1
T. N. Tahmisian, 1

Army, Med. Nutrition Lab. & Food & Container Inst.

E. Da Costa, 5
T. E. Friedemann, 2, 5
H. D. Lightbody, 2
H. Spector, 5
R. C. Stepto, 4

Chicago Med. School

G. Clark, 1
P. P. Foa, 1
F. J. Mullin, 1
L. B. Nice, 1
A. H. Ryan, 1
J. A. Smith, 1

Michael Reese Hosp.

C. Cohn, 1
H. S. Guterman, 1
R. Isaacs, 4
A. Kaplan, 1
L. N. Katz, 1
R. Levine, 1
H. Necheles, 1
W. H. Olson, 1
S. Rodbard, 1
B. B. Rubenstein, 1
O. Saphir, 4
S. Soskin, 1, 5
J. Stamler, 1
A. Tannenbaum, 4
J. E. P. Toman, 1, 3

Northwestern Univ.

J. H. Annegers, 1
J. M. Beazell, 1
F. A. Brown, Jr., 1
W. C. Buchbinder, 1
C. A. Dragstedt, 1, 3
E. B. Farnsworth, 3
L. S. Fosdick, 2
S. Freeman, 1
J. S. Gray, 1
R. R. Greene, 1
H. Greengard, 1
F. S. Grodins, 1
S. C. Harris, 1
O. Hepler, 4
K. K. Jones, 1
I. M. Klotz, 2
A. J. Kosman, 1
M. M. Kunde, 1
J. H. Last, 3
A. Lein, 1
S. Malkiel, 6
R. W. Schayer, 2
R. Schrek, 4
J. P. Simonds, 4
R. S. Snider, 1
W. W. Swanson, 2
W. B. Wartman, 4
J. A. Wells, 3
E. A. Zeller, 2

Presbyterian Hosp.

G. Hass, 4
A. Hiller, 2
D. A. MacFayden, 2

G. D. Searle & Co.

D. L. Cook, 3
R. T. Dillon, 2
W. E. Hambourger, 3
A. L. Raymond, 2
B. Riegel, 2
E. F. Schroeder, 2
M. M. Winbury, 3
I. C. Winter, 3

Univ. of Chicago

W. Adams, 1
J. G. Allen, 1
A. S. Alving, 1
H. S. Anker, 2
E. S. G. Barron, 2
E. P. Benditt, 4
K. Bloch, 2
W. Bloom, 4
N. R. Brewer, 1
W. Burrows, 6
P. R. Cannon, 4, 6
A. J. Carlson, 1, 5R
J. J. Ceithaml, 2
K. W. Cochran, 3
T. B. Coolidge, 2
J. M. Coon, 3
A. Dorfman, 2
W. L. Doyle, 1
L. R. Dragstedt, 1
K. P. Dubois, 3
L. Eichelberger, 2
E. A. Evans Jr., 2
R. N. Feinstein, 2
N. W. Fugo, 3
H. Gaffron, 2
E. M. K. Geiling, 1, 2, 3
I. Gersh, 4
G. Gomori, 4
W. C. Halstead, 1
D. B. Hamre, 6
M. E. Hanke, 2
R. W. Harrison, 6
J. Z. Hearon, 1
T. R. Hogness, 2
C. B. Huggins, 1
E. M. Humphreys, 4
J. O. Hutchens, 1
A. T. Kenyon, 3
N. Kleitman, 1
H. Kluver, 1
H. G. Kobrak, 1
L. M. Kozloff, 2
H. R. Kraybill, 2, 5
J. H. Lewis, 4
M. A. Lipton, 2
C. G. Loosli, 4
A. B. Luckhardt, 1
F. C. McLean, 1, 2, 3
C. P. Miller, 4, 6
M. Morse, 2
J. W. Moulder, 2
W. D. Neff, 1
J. F. Perkins, Jr., 1
T. Porter, 5
F. W. Putnam, 2
H. T. Ricketts, 1
R. Rustigan, 6
I. Sandiford, 2, 5
B. S. Schweigert, 2, 5
R. W. Sperry, 1
P. E. Steiner, 4
L. G. Taliaferro, 6
W. H. Taliaferro, 6
J. M. Tobias, 1
R. D. Tschirgi, 1
B. Vennesland, 2
P. Weiss, 1
R. W. Wissler, 4
R. T. Woodyatt, 2
R. E. Zirkle, 1

Univ. of Illinois

L. G. Abood, 1
D. I. Abramson, 1
A. Arkin, 1, 3
A. Bachem, 1
P. Bailey, 1
J. A. Bain, 3
H. C. Batson, 6
G. A. Bennett, 4
O. Bergeim, 1, 2
S. B. Binkley, 2
J. E. Bourque, 1
P. C. Bucy, 1
W. J. R. Camp, 3
H. R. Catchpole, 1
C. W. Darrow, 1
R. W. Gerard, 1
E. R. Grant, 1
M. I. Grossman, 1
V. Guillemin Jr., 1
F. A. Hellebrandt, 1
R. C. Ingraham, 1
A. C. Ivy, 1, 5
N. R. Joseph, 2
E. R. Kirch, 2
A. Kirschbaum, 4
C. A. Krakower, 4
S. A. Levinson, 4
J. P. Marbarger, 1
W. G. Moss, 1
E. W. Pelikan, 3
C. C. Pfeiffer, 3
C. L. Pirani, 4
C. B. Puestow, 1
S. B. Raska, 1
C. I. Reed, 1
S. R. Rosenthal, 1, 4
A. A. Schiller, 1
T. R. Sherrod, 3
F. Steigmann, 3
K. R. W. Unna, 1, 3, 5
G. E. Wakerlin, 1, 3
W. H. Welker, 2
W. V. Whitehorn, 1
R. J. Winzler, 2

Chicago—Unclassified

W. C. Alvarez, 1R, 3R
L. Arnold, 4, 6
F. C. Bing, 2, 5
J. E. Birren, 1
M. C. H. Brookes, 5
A. F. Coburn, 6
I. Davidson, 4, 6
M. E. Davis, 3
W. J. Dieckmann, 3
J. R. Doty, 2
E. Eagle, 1
O. Felsenfeld, 6
T. B. Friedman, 6
J. C. Fritz, 5
F. A. Gibbs, 1
C. E. Graham, 2, 5
E. L. Gustus, 2
M. T. Hanke, 2
E. E. Hays, 2
S. W. Hier, 2
W. S. Hoffmann, 2
E. Jacobson, 1
A. Leimdorfer, 1
G. H. Miller, 3
B. Mortimer, 1
A. G. Mulder, 1
H. Popper, 4
K. C. Robbins, 6
H. E. Robinson, 5
H. Schwerma, 1
M. J. Shiffrin, 1
A. Spohn, 5
A. H. Steinhaus, 1
G. Ungar, 1
E. Weiss, 6
J. Zichis, 6

Galesburg

State Research Hospital

S. C. Allen, 1
D. A. Boroff, 6
H. E. Himwich, 1
W. A. Himwich, 1

Urbana

UNIV. OF ILLINOIS

H. E. Carter, 2, 5
T. K. Cureton, Jr., 1
G. S. Fraenkel, 5
I. C. Gunsalus, 2
T. S. Hamilton, 2, 5
R. G. Hansen, 2
L. M. Henderson, 2
B. C. Johnson, 2, 5
R. E. Johnson, 1, 2, 5
F. Lanni, 6
H. H. Mitchell, 2, 5
C. L. Prosser, 1
W. C. Rose, 2, 5
F. Sargent, II, 1
J. M. Smith, 5
S. Spiegelman, 1
F. R. Steggerda, 1
C. S. Vestling, 2
C. K. Whitehair, 5

Illinois—Unclassified

M. J. Blish, 2
W. B. Bradley, 1
J. I. Farrell, 1
H. L. Fevold, 2
M. B. Gillis, 5
H. G. Glass, 3
R. P. Herwick, 3
M. Hinrichs, 1
M. K. Horwitt, 2, 5
J. E. Hunter, 5
R. W. Jackson, 2, 5
R. W. Keeton, 1, 3
H. C. Mason, 6
H. A. McGuigan, 1R, 2, 3R
J. W. Mull, 2
S. Natelson, 2
S. E. Owen, 1
E. E. Painter, 1
R. Rhines, 1
E. E. Rice, 5
D. R. Stewart, 1
C. C. Wang, 2, 5
E. G. Weir, 1
W. F. Windle, 1

INDIANA

Bloomington

INDIANA UNIV.

H. G. Day, 2, 5
P. M. Harmon, 1
F. A. Haurowitz, 2, 6
L. S. McClung, 6
P. A. Nicoll, 1
A. W. Richardson, 1
S. Robinson, 1
H. H. Rostorfer, 1
T. J. B. Stier, 1
W. J. Van Wagtendonk, 2
G. E. Wertenberger, 1

Evansville

MEAD JOHNSON AND CO.

W. M. Cox, Jr., 2, 5
B. K. Harned, 2, 3
O. N. Massengale, 2
F. G. McDonald, 2, 5
H. P. Sarett, 2, 5

Indianapolis

ELI LILLY AND CO.

O. K. Behrens, 2
K. K. Chen, 1, 3
G. H. A. Clowes, 2, 6
H. A. Dettwiler, 6
P. N. Harris, 3
F. G. Henderson, 3
W. A. Jamieson, 6
M. H. Lee, 6
H. M. Powell, 6
M. A. Root, 3

INDIANA UNIV.

D. E. Bowman, 2
R. B. Forney, 3
L. W. Freeman, 1
R. N. Harger, 2, 3
H. R Hulpieu, 3
E. W. Shrigley, 6
R. L. Thompson, 6

INDIANAPOLIS GENERAL HOSP.

O. M. Helmer, 2
K. G. Kohlstaedt, 1
R. E. Shipley, 1

INDIANAPOLIS—UNCLASSIFIED

B. E. Abreu, 3
O. D. Bailey, 4
C. A. Bunde, 1

Lafayette

PURDUE UNIV.

A. K. Balls, 2
W. M. Beeson, 5
R. C. Corley, 2
S. M. Hauge, 5
W. A. Hiestand, 1
E. T. Mertz, 2
L. J. Mullins, 1
F. W. Quackenbush, 2
C. Schuck, 5
M. X. Zarrow, 1

Terre Haute

COMMERCIAL SOLVENTS CORP.

F. H. Schultz, Jr., 3
J. N. Spencer, 3
H. E. Stavely, 2

Indiana—Unclassified

S. Ansbacher, 2
C. E. Bills, 2, 5
J. Y. Chen, 3
L. A. Crandall, Jr., 1
C. F. Failey, 2
R. H. K. Foster, 1, 3
A. H. Free, 2, 5
R. K. Lim, 1, 3
F. Neuwelt, 1
V. B. Scott, 1

IOWA

Ames

IOWA STATE COLLEGE

E. R. Becker, 6
W. Burroughs, 5
G. Everson, 5
J. F. Foster, 2
S. W. Fox, 2
E. A. Hewitt, 1
R. M. Melampy, 1
P. M. Nelson, 5
C. E. Roderuck, 5
F. Schlenk, 2
P. P. Swanson, 5
B. H. Thomas, 5
C. H. Werkman, 2

Iowa City

STATE UNIV. OF IOWA

R. Benesch, 2
C. P. Berg, 2, 5
J. H. Bodine 1
H. Bull, 2
J. R. Carter, 4
S. C. Cullen, 3
K. Daum, 5
T. C. Evans, 1
R. M. Featherstone, 3
R. B. Gibson, 2
E. G. Gross, 1, 2, 3
H. M. Hines, 1
S. M. Horvath, 1
J. P. Hummel, 2
W. R. Ingram, 1
R. G. Janes, 1
P. C. Jeans, 5
G. Kalnitsky, 2
G. Marsh, 1
H. A. Mattill, 1, 2, 5R
C. D. May, 5
A. P. McKee, 6
L. D. Morris, 3
W. O. Nelson, 1
I. H. Pierce, 3
J. R. Porter, 6
J. I. Routh, 2
F. W. Schueler, 3
G. Stearns, 2, 5
J. D. Thomson, 1
W. W. Tuttle, 1
E. D. Warner, 4
T. Winnick, 2

Iowa—Unclassified

A. L. Daniels, 2R, 5R
W. L. Mendenhall, 1R, 3R

KANSAS

Kansas City and Lawrence

UNIV. OF KANSAS

C. G. Bly, 4
C. M. Downs, 6
R. E. Green, 3
T. R. Hamilton, 4
R. M. Isenberger, 3
K. Jochim, 1
G. N. Loofbourrow, 1
D. J. Mulford, 2
N. P. Sherwood, 6
O. O. Stoland, 1R
R. E. Stowell, 4
W. C. Wescoe, 3

Manhattan

KANSAS STATE COLLEGE

L. Ascham, 5
J. S. Hughes, 2, 5
M. Kramer, 5
D. B. Parrish, 5

Kansas—Unclassified

N. F. Blau, 2
V. G. Haury, 3
M. S. Pittman, 5
O. S. Walters, 1

KENTUCKY

Fort Knox

ARMY MED. RESEARCH LAB.

J. R. Blair, 1
R. G. Daggs, 1, 5
H. Jensen, 2
A. D. Keller, 1
W. F. Kocholaty, 2
G. W. Molnar, 1
U. F. Westphal, 2

Lexington

UNIV. OF KENTUCKY

G. D. Buckner, 2R
J. C. Humphries, 6
J. S. McHargue, 2R
M. Scherago, 6

USPHS

A. J. Eisenman, 2
H. F. Fraser, 3
H. Isbell, 3
A. Wikler, 3

Louisville

UNIV. OF LOUISVILLE

J. T. Bradbury, 1
W. A. Brodsky, 1
P. K. Knoefel, 3
H. Lawson, 1
W. S. Rehm, Jr., 1
A. J. Steigman, 6
J. F. Taylor, 2
S. M. Walker, 1

Kentucky—Unclassified

W. L. Adams, 3
K. P. McConnell, 2

LOUISIANA

Baton Rouge and New Orleans

LOUISIANA STATE UNIV.

R. Ashman, 1
G. J. Buddingh, 4
A. S Harris, 1
R. L. Holman, 4
L. L. Rusoff, 5
L. A. Toth, 1

OCHSNER CLINIC

T. Findley, Jr., 1
O. Schales, 2
A. Segaloff, 4

TULANE UNIV.

L. M. N. Bach, 1
G. M. Carrera, 4
C. E. Dunlap, 4
G. A. Goldsmith, 5
W. H. Harris, 4
C. D. Hendley, 1
R. Hodes, 1
H. E. King, 1
R. Koster, 3
E. Kun, 3
F. N. Martin, Jr., 3
H. S. Mayerson, 1
M. F. Shaffer, 4, 6
W. B. Wendel, 2
A. G. C. White, 2
W. S. Wilde, 1

NEW ORLEANS—UNCLASSIFIED

A. M. Altschul, 2
C. J. Farmer, 2
T. C. Sherwood, 1

MAINE

F. G. Benedict, 1R, 2R
P. Kyes, 6R
C. Ten Broeck, 4R

MARYLAND

Army Chemical Center

CHEMICAL CORPS MED. LABS.

L. E. Chadwick, 1
W. H. Chambers, 1, 5
V. V. Cole, 3
F. N. Craig, 1
D. B. Dill, 1, 2, 5
S. H. Durlacher, 1
A. J. Dziemian, 1
E. LeB. Gray, 1
E. R. Hart, 3
C. M. Herget, 1
R. G. Horton, 1
B. J. Jandorf, 2
S. Krop, 1, 3
A. S. Marrazzi, 1, 3
B. P. McNamara, 3
H. O. Michel, 2
F. W. Oberst, 2, 3
W. H. Summerson, 2
H. J. Trurnit, 1
C. Tum Suden, 1
T. Wagner-Jauregg, 2
C. G. Wilber, 1
J. H. Wills, 1, 3

Baltimore

JOHNS HOPKINS HOSP.

E. C. Andrus, 1
F. B. Bang, 4
E. A. Bliss, 6
A. M. Chesney, 4
W. M. Firor, 1
J. S. Friedenwald, 1
W. H. Gantt, 1
L. N. Gay, 6
D. Grob, 1
A. M. Harvey, 1, 3
J. E. Howard, 1
C. C. Hunt, 1
O. R. Langworthy, 1
J. L. Lilienthal, Jr., 1
J. W. Magladery, 1
M. M. Mayer, 6
W. D. McElroy, 1, 2
V. A. Najjar, 2
A. G. Osler, 6
A. B. Otis, 1
E. A. Park, 4
A. R. Rich, 4
C. P. Richter, 1
W. W. Scott, 1
A. C. Woods, 6
K. L. Zierler, 1

JOHNS HOPKINS UNIV.

A. M. Baetjer, 1
P. Bard, 1
D. Bodian, 6
F. Brink, Jr., 1
D. W. Bronk, 1
A. Chapanis, 1
F. P. Chinard, 2
B. F. Chow, 2, 5, 6
W. M. Clark, 2
B. Cohen, 2
S. P. Colowick, 2
P. W. Davies, 1
V. G. Dethier, 1
R. H. Follis, Jr. 4
G. O. Gey, 1
H. K. Hartline, 1
L. Hellerman, 2
E. Henneman, 1
R. M. Herriott, 2
E. Howard, 1
H. A. Howe, 6
L. W. Jarcho, 1
N. O. Kaplan, 2
S. W. Kuffler, 1
M. G. Larrabee, 1
D. H. K. Lee, 1
A. L. Lehninger, 2
G. N. Ling, 1
E. K. Marshall, Jr., 1, 2, 3
E. W. Maynert, 3
E. B. McCollum, 5
E. V. McCollum, 2, 5
G. S. Mirick, 6
C. T. Morgan, 1
V. B. Mountcastle, 1
R. L. Riley, 1
J. E. Rose, 1
M. Rosenfeld, 3
C. D. Snyder, 1R
G. F. Sutherland 1
S. A. Talbot, 1
C. B. Thomas, 1
S. S. Tower, 1
A. E. Walker, 1
C. G. Zubrod, 3

UNIV OF MARYLAND

W. R. Amberson, 1
M. A. Andersch, 2
C. J. Carr, 3
F. P. Ferguson, 1
R. G. Grenell, 1
O. G. Harne, 1
J. C. Krantz, Jr., 3
G. Lu, 3
R. H. Oster, 1
E. G. Schmidt, 2
D. C. Smith, 1

BALTIMORE—UNCLASSIFIED

J. H. Brewer, 6
J. H. Clark, 1
A. Goldin, 1
H. H. Gordon, 5
A. W. Hetherington, 1
M. Landowne, 1
D. I. Macht, 1R, 3
R. K. McDonald, 1
C. W. Price, 6
S. M. R. Reynolds, 1
G. C. Robinson, 1R
N. W. Shock, 1

Frederick

U. S. Army Chemical Corps, Camp Detrick

J. B. Bateman, 1
A. K. Boor, 2
C. R. Brewer, 2
N. Fell, 6
L. D. Fothergill, 6
F. B. Gordon, 4
J. Victor, 4
G. G. Wright, 6

Maryland—Unclassified

M. G. Banus, 1
P. J. Crittenden, 1, 3
W. Fleischmann, 1
J. L. King, 1R
F. D. Maurer, 6
J. D. McCarrell, 1
D. M. Rioch, 1
J. C. Shaw, 1

MASSACHUSETTS

Amherst

Univ. of Massachusetts

A. D. Holmes, 2R, 5R
H. S. Mitchell, 2, 5
A. W. Wertz, 5

Boston Area

Beth Israel Hosp.

B. Alexander, 2
H. L. Blumgart, 1
A. S. Freedberg, 1
M. J. Schlesinger, 4, 6

Boston City Hosp.

W. B. Castle, 4
C. S. Davidson, 5
M. Finland, 6
S. Maddock, 4
G. K. Mallory, 4

Boston Univ.

E. E. Baker, 6
D. L. Belding, 4
W. C. Boyd, 6
E. H. Dearborn, 3
G. P. Fulton, 1
A. H. Hegnauer, 1
S. B. Hooker, 6
E. R. Loew, 1, 3
F. C. Lowell, 6
B. R. Lutz, 1
B. S. Walker, 2
L. C. Wyman, 1
A. G. Young, 3

Harvard Univ.

E. G. Ball, 2
A. C. Barger, 1
G. P. Berry, 6
B. S. Burke, 5
E. S. Castle, 1
P. O. Chatfield, 1
E. J. Cohn, 1, 2
J. B. Conant, 2
A. H. Coons, 6
M. F. Crawford, 1
W. J. Crozier, 1
L. Dexter, 1
M. D. Eaton, 6
J. T. Edsall, 2
J. F. Enders, 6
S. Farber, 4
B. G. Ferris, Jr., 1
R. M. Ferry, 2
A. P. Fishman, 1
C. H. Fiske, 2
A. Forbes, 1
H. S. Forbes, 1R
W. H. Forbes, 1
E. H. Frieden, 2
J. L. Gamble, 2, 5
O. Gates, 4
R. P. Geyer, 5
E. C. Gjessing, 2
A. Goldstein, 3
W. T. Goodale, 1
R. O. Greep, 1
R. E. Gross, 4
F. R. Gurd, 2
J. H. Hanks, 6
A. B. Hastings, 1, 2, 5
C. V. Z. Hawn, 4
F. W. Haynes, 1
D. M. Hegsted, 5
F. L. Hisaw, 1
M. L. Karnovsky, 2
O. Krayer, 3
E. M. Landis, 1
T. H. Li, 3
C. P. Lyman, 1
B. Magasanik, 2
G. V. Mann, 5
J. Mayer, 5
R. A. McFarland, 1
R. W. McKee, 2
J. Mead, 1
G. A. Miller, 1
J. H. Mueller, 2, 4, 6
P. L. Munson, 2
J. P. O'Hare, 4
J. R. Pappenheimer, 1
G. H. Parker, 1R
W. C. Quinby, 1R
D. S. Riggs, 3
S. L. Robbins, 4
H. F. Root, 5
S. J. Sarnoff, 1
J. H. Shaw, 5
F. F. Snyder, 1
J. C. Snyder, 6
A. K. Solomon, 1
F. J. Stare, 2, 5
S. S. Stevens, 1
G. W. Thorn, 1
H. C. Trimble, 2, 5
C. A. Villee, Jr., 2
G. Wald, 1, 2
C. W. Walter, 4
S. Warren, 4
T. H. Weller, 6
J. H. Welsh, 1
J. L. Whittenberger, 1
C. M. Williams, 1
G. B. Wislocki, 1
S. B. Wolbach, 4
J. Wyman, Jr., 1

Massachusetts General Hosp.

J. Aub, 1, 5
W. Bauer, 1
H. K. Beecher, 1, 3
S. Black, 2
M. A. B. Brazier, 1
L. Dienes, 6
L. L. Engel, 2
J. Gergely, 2
A. S. Keats, 3
F. Lipmann, 2
B. F. Miller, 2
I. T. Nathanson, 1
G. D. Novelli, 2
F. M. Rackemann, 6
B. H. Waksman, 6
P. D. White, 3
P. Zamacnik, 2

Massachusetts Inst. of Tech.

R. S. Harris, 5
J. C. R. Licklider, 1
W. S. McCulloch, 1
F. O. Schmitt, 1
I. W. Sizer, 1
D. F. Waugh, 1

New England Deaconess Hosp.

E. P. Joslin, 5R
H. B. Kenton, 6
E. H. Tompkins, 4

Tufts College

E. B. Astwood, 1
P. Bernfeld, 2
E. A. Brown, 6
A. Canzanelli, 1
L. Carmichael, 1
H. N. Christensen, 2
B. B. Clark, 3
D. Feller, 1
W. H. Fishman, 2
Z. Hadidian, 1
W. E. Knox, 2
D. Rapport, 1
K. D. Roeder, 1
M. Stefanini, 1
S. J. Thannhauser, 2

Boston Area—Unclassified

F. N. Allan, 4
C. F. Essig, 1
C. Floyd, 6
J. Folch, 2
E. M. Follansby, 6
G. P. Grabfield, 3R
M. G. Gray, 3
A. Gulick, 1R, 5R
K. C. D. Hickman, 2
H. L. Higgins, 1, 5
J. M. Looney, 2
J. W. Mavor, 1R
F. H. McCrudden, 2R
Z. B. Miller, 2
A. M. Pappenheimer, 4
J. H. Pratt, 1, 3, 4
L. Rane, 6
J. F. Ross, 4
G. Schmidt, 2
C. E. Schradieck, 6
L. G. Wesson, 2, 3

Shrewsbury

Worcester Foundation

M. C. Chang, 1
R. I. Dorfman, 2
M. Hayano, 2
O. M. Hechter, 1
H. Hoagland, 1
G. Pincus, 1

South Hadley

Mt. Holyoke College

C. Haywood, 1
J. Muus, 2
A. H. Turner, 1R

Woods Hole

Marine Biological Labs.

A. G. Marshak, 1
A. P. Mathews, 1R, 2
P. F. Scholander, 1
A. Szent-Gyorgyi, 2

Massachusetts—Unclassified

R. Beutner, 1R, 3
T. M. Carpenter, 1R, 2, 5R
V. C. Dewey, 2
C. K. Drinker, 1
F. Elmadjian, 1
H. Freeman, 1
F. S. Hammett, 1R, 2R
H. E. Henschel, 1
J. O. Holmes, 2, 5
R. G. Hoskins, 1R
P. V. Karpovich, 1
G. W. Kidder, 2
S. D. Kramer, 6
W. T. Longcope, 3R, 4, 6R
S. A. Matthews, 1
F. W. Maurer, 1
H. E. Munsell, 5
T. S. Potter, 6
F. H. Pratt, 1R
A. C. Redfield, 1
M. Sampson, 5
E. V. Smith, 6
S. E. Steiman, 1
A. H. Woodcock, 1

MICHIGAN

Ann Arbor

Univ. of Michigan

W. W. Ackerman, 2
B. L. Baker, 1
J. W. Bean, 1
F. H. Bethell, 4
W. D. Block, 2
D. F. Bohr, 1
C. R. Brassfield, 1
D. E. S. Brown, 1
G. C. Brown, 6
J. P. Chandler, 2, 5
M. B. Chenoweth, 3
A. A. Christman, 2
J. W. Conn, 5
F. M. Davenport, 6
H. C. Eckstein, 2
R. C. Elderfield, 2
T. Francis, Jr., 4, 6
R. L. Garner, 2
R. Gesell, 1
S. W. Hoobler, 1
M. W. Johnston, 2, 5
R. L. Kahn, 4, 6
A. B. Lerner, 2
H. B. Lewis, 1, 2, 5
L. H. Louis, 2
L. Miller, 2
M. Nickerson, 1, 3
F. G. Novy, 1R, 2R, 4R, 4H, 6H
W. J. Nungester, 6
M. H. Seevers, 1, 3
F. E. Shideman, 3
C. C. Sturgis, 4
M. E. Swendseid, 2
C. V. Weller, 4
A. H. Wheeler, 6
F. N. Wilson, 4
L. A. Woods, 3
A. E. Woodward, 1
P. A. Wright, 1

Detroit

Henry Ford Hosp.

P. D. Bartlett, 2
V. G. Behrmann, 1
O. H. Gaebler, 2
F. W. Hartman, 4
G. H. Mangun, 2
J. W. Rebuck, 4

Parke Davis & Co.

O. Bird, 2
A. C. Bratton, Jr., 3
R. A. Brown, 5
G. Chen, 3
A. J. Glazko, 1
O. Kamm, 2
J. C. Mathies, 2
D. A. McGinty, 1
I. W. McLean, Jr., 6
J. J. Pfiffner, 1, 2, 5
A. R. Taylor, 2, 6
C. V. Winder, 1, 3

Wayne Univ.

V. A. Drill, 1, 3
E. Gardner, 1
H. W. Hays, 3
R. M. Johnson, 2
C. G. Johnston, 1
A. C. Kuyper, 2
W. O. Maddock, 1
A. U. Orten, 5
J. M. Orten, 2, 5
T. L. Patterson, 1
D. J. Sandweiss, 1
C. L. Schneider, 1
W. H. Seegers, 1, 2
A. H. Smith, 2, 5

Detroit—Unclassified

A. J. Derbyshire, 1
E. B. Gerheim, 1, 6
I. M. Hoobler, 2, 5
P. A. Kober, 2R

East Lansing

Michigan State College

B. V. Alfredson, 1
W. D. Brewer, 5
D. C. Cederquist, 5
W. D. Collings, 1
M. Dye, 2, 5
R. J. Evans, 5
R. M. Herbst, 2
C. A. Hoppert, 5
C. F. Huffman, 5
R. W. Luecke, 5
J. Meites, 1, 5
M. A. Ohlson, 5
E. P. Reineke, 1
L. F. Wolterink, 1

Kalamazoo

Upjohn Co.

G. C. Bond, 6
G. F. Cartland, 2
W. A. Freyburger, Jr., 3
W. M. Govier, 3
D. J. Ingle, 1
M. H. Kuizenga, 2
C. E. Meyer, 2
M. J. Vander Brook, 3
F. E. Visscher, 1

Michigan—Unclassified

S. H. Bartley, 1
N. O. Calloway, 3
R. Y. Gottschall, 6
O. M. Gruhzit, 4
C. J. Herrick, 1R
D. D. Irish, 3
E. C. Mahon, 4
W. F. McLimans, 6
C. W. Muehlberger, 3
R. M. Tomarelli, 2, 5

MINNESOTA

Minneapolis

Univ. of Minnesota

J. T. Anderson, 5
W. D. Armstrong, 2
A. B. Baker, 4
C. P. Barnum, Jr., 2
E. T. Bell, 4
R. N. Bieter, 3
E. A. Boyden, 1
E. B. Brown, Jr., 1
J. Brozek, 1
B. Campbell, 1
S. L. Cohen, 2
E. M. Cranston, 3
J. R. Dawson, Jr., 4
G. T. Evans, 1
G. Fahr, 1R, 3
E. Gellhorn, 1
D. Glick, 2
M. Graubard, 1
F. W. Hoffbauer, 4
C. Kennedy, 2, 5R
A. Keys, 1, 2
J. T. King, 1
F. J. Kottke, 1
W. G. Kubicek, 1
H. C. Lichstein, 2
N. Lifson, 1
I. McQuarrie, 1, 4, 5
A. T. Rasmussen, 1R
O. H. Schmitt, 1
S. Schwartz, 2
E. Simonson, 1
L. I. Smith, 2
W. W. Spink, 6
H. B. Steinbach, 1
A. V. Stoesser, 6
J. T. Syverton, 4, 6
H. L. Taylor, 1
L. Thomas, 6
M. B. Visscher, 1
O. H. Wangensteen, 1, 4
C. J. Watson, 2, 4
D. W. Watson, 6
H. S. Wells, 1
W. L. Williams, 1, 4
H. N. Wright, 3

Minneapolis—Unclassified

H. R. Gutman, 2
G. A. Matson, 6
F. W. Wittich, 6

Rochester

Mayo Clinic and Foundation

R. C. Adams, 3
A. Albert, 1
S. Amberg, 1R, 2, 3R
E. J. Baldes, 1
W. A. Bennett, 4
R. G. Bickford, 1
J. L. Bollman, 4
H. B. Burchell, 1
H. R. Butt, 5
C. F. Code, 1, 3
K. B. Corbin, 1
J. E. Edwards, 4
H. E. Essex, 1, 3
A. Fauleoner, Jr., 3
W. H. Feldman, 4
E. V. Flock, 2
W. S. Fowler, 1
J. H. Grindlay, 1
R. A. Groat, 1
G. A. Hallenbeck, 1
J. F. Herrick, 1
G. M. Higgins, 5

W. H. Hollinshead, 1
V. Johnson, 1
A. G. Karlson, 4
N. M. Keith, 1, 3R, 4
E. H. Lambert, 1
J. S. Lundy, 3
T. B. Magath, 1
F. C. Mann, 1, 4R
F. D. Mann, 1, 4
H. L. Mason, 2
D. R. Mathieson, 6
C. A. Owen, Jr., 4
M. H. Power, 2
G. M. Roth, 1
A. H. Sanford, 6R
C. Sheard, 1
K. G. Wakim, 1, 3
E. H. Wood, 1, 3

St. Paul

UNIV. OF MINNESOTA

P. D. Boyer, 2
D. R. Briggs, 2
J. M. Leichsenring, 5
W. E. Petersen, 1
M. H. Roepke, 3
M. O. Schultze, 2, 5

Minnesota—Unclassified

L. E. Booher, 2, 5
E. D. Brown, 1R, 3R
R. T. Holman, 2
W. O. Lundberg, 2
F. W. Wittich, 6

MISSISSIPPI

A. C. Guyton, 1
J. C. Rice, 3

MISSOURI

Columbia

UNIV. OF MISSOURI

B. Bisbey, 5
S. Brody, 2, 5
M. M. Ellis, 1
A. G. Hogan, 2, 5
D. T. Mayer, 2
D. K. Meyer, 1
B. L. O'Dell, 2
W. S. Platner, 1
G. C. Rau, 1
L. E. Thomas, 2
B. A. Westfall, 1, 3

Kirksville

KIRKSVILLE COLLEGE OF OSTEOPATHY

S. A. Corson, 1
J. S. Denslow, 1
S. F. Howell, 2
I. M. Korr, 1

St. Louis

ST. LOUIS UNIV.

H. T. Blumenthal, 4
G. O. Broun, 4
E. A. Doisy, 2
E. A. Doisy, Jr., 2
H. E. Ederstrom, 1
W. H. Elliott, 2
F. E. Franke, 1
A. B. Hertzman, 1
P. A. Katzman, 2
K. K. Kimura, 3
B. J. Luyet, 1
X. J. Musacchia, 1
C. H. Neilson, 2
E. E. Nelson, 3
H. Pinkerton, 4
W. C. Randall, 1
S. A. Thayer, 2

WASHINGTON UNIV.

W. E. Allen, 1
G. H. Bishop, 1
M. V. Buell, 2
S. C. Bukantz, 6
C. Carruthers, 2
M. Cohn, 2
C. F. Cori, 2, 3
G. T. Cori, 2, 3
D. F. Davies, 1
E. W. Dempsey, 1
J. Erlanger, 1R
M. E. Friedkin, 2
R. F. Furchgott, 2, 3
A. S. Gilson, Jr., 1
H. T. Graham, 1, 3
C. G. Harford, 6
A. F. Hartmann, 2
P. Heinbecker, 1
F. E. Hunter, Jr., 2, 3
M. D. Kamen, 2
J. E. Kirk, 2
M. E. Krahl, 2, 3
G. L. Kreezer, 1
L. Loeb, 1R, 4
O. H. Lowry, 2, 3
C. V. Moore, 4, 5
R. A. Moore, 4
C. A. Moyer, 1
C. N. Peiss, 1
P. W. Preisler, 2
E. Roberts, 2
E. Ronzoni, 2
A. Roos, 1
G. Saslow, 1
J. A. Saxton, Jr., 4
I. L. Scheckmeister, 6
G. M. Schoepfle, 1
H. A. Schroeder, 1
P. A. Shaffer, 2
R. E. Shank, 2
M. Silberberg, 4
R. Silberberg, 4
J. R. Smith, 1
A. Surtshin, 1
E. W. Sutherland, Jr., 2
P. L. Varney, 6
S. F. Velick, 2
T. E. Weichselbaum, 2
H. L. White, 1
R. D. Williams, 5

ST. LOUIS—UNCLASSIFIED

R. M. Bethke, 2, 5
H. Davis, 1
M. S. Fleischer, 4, 6
W. C. Sherman, 5
W. J. Siebert, 4
M. Somogyi, 2
R. W. Stoughton, 3

Missouri—Unclassified

L. L. Eisenbrandt, 3
R. L. Ferguson, 4
C. C. Guthrie, 1R, 3R
S. R. Johnson, 5
Z. Wallen-Lawrence, 2
C. J. Weber, 2

MONTANA

Hamilton

USPHS, ROCKY MOUNTAIN LAB.

D. B. Lackman, 6
Carl L. Larson, 6
S. B. Salvin, 6
C. C. Shepard, 6

NEBRASKA

Lincoln

UNIV. OF NEBRASKA

R. Borchers, 5
R. G. Gustavson, 2
H. G. O. Holck, 1, 3
R. M. Leverton, 5
W. E. Militzer, 2
C. Olsen, Jr., 4
D. M. Pace, 1

Omaha

CREIGHTON UNIV.

J. Ferguson, 1
V. E. Levine, 2
H. C. Struck, 1, 3
C. M. Wilhelmj, 1

UNIV. OF NEBRASKA

A. L. Bennett, 1
A. L. Dunn, 1
A. R. McIntyre, 1, 3
S. Morgulis, 1, 2
J. R. Schenken, 4

NEW HAMPSHIRE

O. W. Barlow, 3
R. P. Forster, 1
W. Hale, 1R, 3R
J. Nyboer, 1
E. G. Ritzman, 5R
E. S. Robinson, 6

NEW JERSEY

New Brunswick

RUTGERS UNIV.

J. B. Allison, 2, 5
A. A. Boyden, 6
V. Groupe, 6
J. H. Leathem, 1
W. C. Russell, 2, 5
P. D. Sturkie, 1
M. W. Taylor, 5
M. Upton, 1
W. W. Wainio, 2

E. R. SQUIBB AND SONS

W. E. Bunney, 6
J. D. Dutcher, 2
J. Fried, 2
A. Holm, 6
W. L. Koerber, 6
C. R. Linegar, 3
C. M. McKee, 6
O. Wintersteiner, 2

NEW BRUNSWICK—UNCLASSIFIED

B. Craver, 3
A. P. Locke, 6
M. A. Reid, 1
W. Van Winkle, Jr. 3

Nutley

HOFFMANN-LA ROCHE, INC.

J. X. Bauernfeind, 5
J. M. Cooperman, 5
L. O. Randall, 2, 3
S. H. Rubin, 2, 5
W. B. Schallek, 1
E. L. Sevringhaus, 2, 5

Princeton

PRINCETON UNIV.

H. F. Blum, 1
A. M. Chase, 1
E. N. Harvey, 1, 2
F. H. Johnson, 1
E. C. Kendall, 1, 2, 4
H. S. Mason, 2
A. K. Parpart, 1
W. W. Swingle, 1

Rahway

MERCK AND CO.

G. E. Boxer, 2
H. F. Colfer, 1
G. A. Emerson, 5
K. Folkers, 2
J. E. Hawkins, Jr., 1
R. T. Major, 2
H. Molitor, 1, 3
C. W. Mushett, 4
D. F. Opdyke, 1
W. H. Ott, 5
R. L. Peck, 2
H. J. Robinson, 3
J. V. Scudi, 2, 3, 5
R. E. Shope, 4
O. H. Siegmund, 3
R. H. Silber, 2
M. Solotorovsky, 6
R. B. Stebbins, 4
H. C. Stoerk, 4
W. W. Umbreit, 2
C. A. Winter, 1, 3

Raritan

ORTHO RESEARCH FOUNDATION

C. G. Hartman, 1
P. Levine, 6
N. Millman, 1

Summit

CIBA PHARMACEUTICAL PRODUCTS, INC.

C J. De Boer, 6
R. Gaunt, 1
E. Oppenheimer, 3
A. J. Plummer, 3
F. F. Yonkman, 3

New Jersey—Unclassified

M. L. Anson, 2
F. M. Berger, 3
R. L. Cahen, 3
L. C. Chesley, 1
A. F. Coca, 4R, 6H
L. W. Famulener, 6
E. C. Hay, 1
J. Hillier, 1
J. E. Hyde, 1
B. MacPhillamy, 6
D. Melnick, 2, 5
R. H. Muller, 6
L. Reiner, 2, 6
J. Schiller, 1
C. C. Scott, 3
E. L. Scott, 1R, 2
R. Tislow, 1, 3
H. W. Titus, 2, 5
D. Tourtellotte, 5
E. M. Valteich, 5
R. E. Waterman, 2
R. R. Williams, 2, 5

NEW MEXICO

Albuquerque

W. M. Boothby, 1R, 2, 3R, 4R
W. J. Eversole, 1
F. G. Hirsch, 1

Los Alamos

U. S. ATOMIC ENERGY COMM.

R. G. Gould, 2
W. H. Langham, 2
C. C. Lushbaugh, 4
S. Shlaer, 1
J. B. Storer, 4

NEW YORK

Albany

ALBANY MED. COLLEGE

R. S. Cunningham, 1
W. B. Deichmann, 3
A. Knudson, 2, 5
H. C. Wiggers, 1
A. W. Wright, 4

N. Y. STATE DEPT. OF HEALTH

R. Brown, 6
J. M. Coffey, 6
S. M. Cohen, 6
G. Dalldorf, 4, 6
I. Gordon, 6
A. H. Harris, 2nd, 6
J. L. Hendry, 6
C. Lange, 6
H. W. Lyall, 6
M. C. Pangborn, 2
M. Shaw, 6
G. M. Sickles, 6
G. R. Sickles, 6
W. R. Thompson, 2
A. B. Wadsworth, 6
M. W. Wheeler, 6

Buffalo

UNIV. OF BUFFALO

E. M. Bridge, 2, 3
J G. Edwards, 1
F. R. Griffith, Jr., 1, 5
R. S. Hubbard, 1, 2
H. K. Iwamoto, 3
G. F. Koepf, 1
W. Langley, 2
J. F. Mohn, 6
K. L. Terplan, 4

BUFFALO—UNCLASSIFIED

A. Golden, 4
E. Neter, 6
E. Witebsky, 6

Ithaca

CORNELL UNIV.

J. A. Baker, 4
L. J. Daniel, 2
R. W. Dougherty, 1
H. H. Dukes, 1
J. A. Dye, 1
D. R. Griffin, 1
H. M. Hauck, 5
F. A. Johnston, 5
H. S. Liddell, 1
J. K. Loosli, 5
L. A. Maynard, 2, 5
C. M. McCay, 2, 5
W. L. Nelson, 5
L. C. Norris, 2, 5
M. L. Scott, 2
S. E. Smith, 5
J. B. Sumner, 2
H. H. Williams, 2, 5

New York City Area

BETH ISRAEL HOSP.

A. A. Epstein, 2
I. Saphra, 6
E. H. Fishberg, 2

BROOKHAVEN NATL. LAB.

H. J. Curtis, 1
A. Edelmann, 1
L. E. Farr, 4
W. M. Hale, 4, 6
J. R. Klein, 2
M. E. Koshland, 6
L. F. Nims, 1
R. Steele, 2
D. D. Van Slyke, 2

BROOKLYN COLLEGE

H. G. Albaum, 2
R. H. Cheney, 3
D. Fetter, 1
R. M. Guttman, 1

COLLEGE OF THE CITY OF NEW YORK

E. Borek, 2
A. J. Goldforb, 1
B. Harrow, 2
A. Mazur, 2
R. W. Root, 1
G. C. H. Stone, 2

COLUMBIA UNIV.

T. H. Allen, 1
J. A. Behre, 2
B. N. Berg, 4
M. Bevans, 4
M. T. Bogert, 2
S. E. Bradley, 1

E. Brand, 1, 2
M. L. Caldwell, 2, 5
E. Chargaff, 2
L. J. Cizek, 1
A. R. Clark, 6
H. T. Clarke, 2
D. Cowen, 4
R. C. Darling, 1
C. R. Dawson, 2
I. J. Deyrup, 1
Z. Dische, 2
H. Elftman, 1
E. T. Engle, 1
E. E. Fischel, 6
G. L. Foster, 2
A. Gellhorn, 3
W. J. Gies, 1R, 2, 3R
A. Gilman, 1, 3
C. H. Graham, 1
M. I. Gregersen, 1
H. Grundfest, 1
S. P. Halbert, 6
F. Hanger, 6
T. Hayashi, 1
M. Heidelberger, 2, 6
S. S. Hudack, 4
J. W. Jailer, 1
C. W. Jungeblut, 4, 6
E. A. Kabat, 2, 6
M. Karshan, 2
H. Kaunitz, 4
F. E. Kendall, 6
H. D. Kusten, 4
C. Landis, 1
B. M. Levy, 4
R. L. Levy, 3
C. C. Lieb, 1R, 3R
S. Lieberman, 2
G. MacLeod, 2, 5R
I. Mandl, 2
F. A. Mettler, 1
K. Meyer, 2
E. G. Miller, Jr., 2
D. H. Moore, 1
G. H. Mudge, 1
D. Nachmansohn, 1, 2
W. L. Nastuk, 1
J. M. Nelson, 2
J. L. Nickerson, 1
E. T. Oppenheimer, 1
E. M. Papper, 3
F. H. Pike, 1
C. Ragan, 1
D. Rittenberg, 2
W. S. Root, 1
H. M. Rose, 6
R. Rugh, 1
B. C. Seegal, 4, 6
D. Seegal, 6
D. Shemin, 2
L. B. Shettles, 1
M. E. Shils, 5
H. P. Smith, 1, 4
P. E. Smith, 1R
W. C. Spain, 6
D. B. Sprinson, 2
E. Sproul, 4
W. B. Stewart, 4
J. V. Taggart, 1
C. M. Taylor, 5
A. W. Thomas, 2
H. B. Van Dyke, 1, 3
H. Waelsch, 2
W. W. Walcott, 1
S. Wang, 1, 3
J. T. Weld, 6
I. B. Wilson, 2
A. Wolf, 4
S. Zamenhof, 2

Cornell Univ. Med. College

H. L. Barnett, 1
S. Bayne-Jones, 4, 6
R. W. Bonsnes, 2
A. Brunschwig, 4
M. Cattell, 1, 3
P. F. De Gara, 6
E. F. Dubois, 1, 3R, 5R
V. DuVigneaud, 2, 5
D. J. Edwards, 1
F. C. Ferguson, Jr., 3
N. C. Foot, 4
S. Garb, 3
H. Gold, 3
T. H. Greiner, 3
J. C. Hinsey, 1
A. Kellner, 4
C. J. Kensler, 3
J. G. Kidd, 4, 6
H. D. Lauson, 1
R. W. Lawton, 1
J. MacLeod, 1
D. B. Melville, 2
A. T. Milhorat, 1, 3, 5
W. Modell, 3
J. M. Neil, 6
R. F. Pitts, 1
J. R. Rachele, 2
J. Reilly, 3
W. F. Riker, Jr., 3
J. Y. Sugg, 6
C. Torda, 1, 3
J. Travell, 3
F. S. Vogel, 4
B. Webster, 5

N. Y. C. Dept. of Health

L. Buchbinder, 6
C. R. Falk, 6
A. W. Walter, 6

Jewish Hosp. of Brooklyn

K. L. Bowman, 6
A. E. Sobel, 2
F. B. Traub, 6
M. Walzer, 6
E. A. Werber, 6
A. S. Wiener, 6

Lederle Labs.

H. P. Broquist, 2
H. R. Cox, 6
R. W Cunningham, 3
I. S. Danielson, 2
W. C. Grant, 1
B. L. Hutchings, 2
T. H. Jukes, 2, 5
H. Koprowski, 6
A. W. Moyer, 6
J. J. Oleson, 2
G. R. Sharpless, 5
E. L. R. Stokstad, 2, 5
J. Vanderscheer, 6
W. L. Williams, 2

Memorial Hosp.

O. Bodansky, 2, 3
G. T. Pack, 1
R. W. Rawson, 1
C. P. Rhoads, 4
F. W. Stewart, 4

Montefiore Hosp.

E. J. Baumann, 2
H. Haimovici, 1
H. R. Miller, 1
R. E. Weston, 1
H. M. Zimmerman, 4

Mt. Sinai Hosp.

H. A. Abramson, 2
A. L. Florman, 6
A. B. Gutman, 2
F. Hollander, 1, 2
H. D. Janowitz, 1
M. Mendlowitz, 1
E. Perlman, 6
E. P. Pick, 3
H. Pollack, 1, 5
B. Schick, 6
S. S. Schneirson, 6
G. Shwartzman, 4, 6
J. H. Sirota, 1
H. H. Sobotka, 2, 5
M. Wachstein, 4

New York Hosp.

A. Goldfeder, 1
R. E. Lee, 1
S. Z. Levine, 5
M. H. Loveless, 6
C. Neumann, 1
J. M. Pearce, 4
P. Reznikoff, 1
F. E. Sammis, 6
E. Shorr, 1, 3
G. W. Wheeler, 6
H. G. Wolff, 1, 3

New York Med. College

R. J. Block, 2, 5
L. J. Boyd, 3
L. B. Dotti, 1
C. L. Fox, Jr., 1, 6
S. Gelfan, 1
C. Haig, 1
I. S. Kleiner, 1, 2, 3R, 5R
D. Lehr, 3
M. G. Mulinos, 3
C. Neuberg, 2
B. Ratner, 4, 6

New York State Univ. Med Center at N. Y. C., College of Medicine

C. M. Brooks, 1, 3
A. H. Eggerth, 4
J. Gross, 1
J. B. Hamilton, 1
B. Kramer, 1, 2
W. Lintz, 6
P. H. Long, 3
T. P. Magill, 6
E. Muntwyler, 2
J. R. Oliver, 1, 4
J. O. Pinkston, 1, 3
S. Seifter, 2
A. A. Siebens, 1
R. A. Turner, 2
N. Weissman, 2

New York Univ.

M. Adams, 6
C. V. Bailey, 2, 5R
R. C. Batterman, 3
M. B. Bender, 1
J. G. Benton, 3
A. W. Bernheimer, 6
M. Bruger, 2, 5
R. Chambers, 1R
H. A. Charipper, 1
H. Chasis, 1
L. R. Christensen, 6
M. J. Coon, 2
A. L. Copley, 1
A. F. Cournand, 1
R. C. de Bodo, 1, 3
A. C. DeGraff, 1, 3
M. E. Dumm, 1
D. P. Earle, Jr., 1
L. W. Eichna, 1
H. N. Eisen, 6

M. Galdston, 1
A. L. Garbat, 6
M. Gaudino, 1
A. O. Gettler, 2
W. Goldring, 1
E. D. Goldsmith, 1
A. S. Gordon, 1
I. Graef, 4
C. H. Greene, 1, 2, 4
I. Greenwald, 2, 5
C. W. Hampel, 1
O. M. Helff, 1
S. G. Hershey, 3
L. E. Holt, Jr., 2, 5
A. S. Keston, 2
A. C. Kibrick, 2
S. Korkes, 2
H. S. Kupperman, 3
H. S. Lawrence, 6
M. Levy, 2
O. Loewi, 3H
C. M. MacLeod, 6
N. Nelson, 2
I. Neuwirth, 2, 3
S. Ochoa, 2
A. M. Pappenheimer, Jr., 2, 6
E. Racker, 2
E. P. Ralli, 1, 5
S. Ratner, 2
M. N. Richter, 4
S. H. Rinzler, 3
E. A. Rovenstine, 3
A. Sandow, 1
M. Schubert, 3
M. Schweizer, 1
D. Sheehan, 1
H. W. Smith, 1, 2
J. M. Steele, 1
J. R. Stern, 2
M. B. Sulzberger, 6
W. S. Tillett, 6
L. J. Ungar, 6
R. Ward, 6
R. C. Warner, 2
L. G. Wesson, Jr., 1
S. L. Wilens, 4
S. B. Wortis, 1
M. B. Zucker, 1
B. W. Zweifach, 1

Presbyterian Hosp.

L. Bauman, 2
A. R. Doches, 4R, 6R
M. O. Lipman, 6
N. S. R. Maluf, 1
C. T. Nelson, 6
R. Végria, 1, 3

Public Health Research Inst.

J. Freund, 6
G. K. Hirst, 6
D. Stetten, Jr., 2
M. R. Stetten, 2
Y. J. Topper, 2

Rockefeller Foundation and Inst. for Med. Research

R. M. Archibald, 2
J. C. Bugher, 4
M. W. Chase, 6
A. E. Cohn, 1R, 3
L. C. Craig, 2
R. J. Dubos, 6
D. D. Dziewiatkowski, 2
H. S. Gasser, 1, 3
W. F. Goebel, 2, 6
S. Granick, 2
F. L. Horsfall, Jr., 6
R. D. Hotchkiss, 2
W. A. Jacobs, 2, 3
M. Kunitz, 2
R. C. Lancefield, 6
D. P. C. Lloyd, 1
R. Lorente de Nó, 1
M. McCarty, 6
P. D. McMaster, 4, 6
A. E. Mirsky, 2
S. Moore, 2
R. S. Morison, 1
J. B. Nelson, 4
P. K. Olitsky, 6
W. W. Oliver, 4
E. L. Opie, 1R, 4, 6R
M. I. Osterhout, 1
W. J. V. Osterhout, 1
L. Pearce, 4
G. E. Perlmann, 2
T. M. Rivers, 4, 6
S. Rogers, 4
P. Rous, 4
H. A. Schneider, 5
I. L. Schwartz, 1
W. H. Stein, 2
H. Swift, 6
W. Trager, 4
D. W. Woolley, 2, 5

Sloan-Kettering Inst.

A. Bendich, 2
G. B. Brown, 2
D. A. Clarke, 3
D. K. Fukushima, 2
T. F. Gallagher, 2
T. H. Kritchevsky, 2
R. C. Mellors, 2
M. L. Petermann, 2
F. S. Philips, 3
D. Pressman, 6
M. M. Rapport, 2
P. M. Roll, 2
C. C. Stock, 2

Wellcome Research Labs.

E. J. de Beer, 3
G. B. Elion, 2
C. H. Ellis, 1
G. H. Hitchings, 2

New York Area—Unclassified

F. M. Allen, 1R, 4
M. Anchel, 2
D. H. Andersen 4
O. D. Anderson, 1
L. Atkin, 2, 5
S. Baez, 1
E. F. Beach, 2, 5
E. W. Blanchard, 1
H. Blumberg, 5
A. Bodansky, 2
T. E. Boyd, 1
W. W. Brandes, 4
R. H. Broh-Kahn, 1
H. H. Bunzell, 2
R. B. Burton-Opitz, 1R, 2, 3R
L. R. Cerecedo, 2, 5
G. P. Child, 3
N. Choucron, 6
J. G. Chusid, 1
R. A. Cooke, 6
C. Co Tui, 3
B. D. Davis, 6
C. G. de Gutierrez-Mahoney, 1, 4
H. E. Dubin, 2
L. N. Ellis, 5
K. G. Falk, 2
A. P. Fishman, 1
C. N. Frey, 5
C. Funk, 2
W. Goldfarb, 1
A. C. Groschke, 5
F. Gudernatsch, 1
J. D. Hardy, 1
M. Hardy, 1
P. B. Hawk, 1, 2
E. L. Hazen, 6
J. B. Herrmann, 3
A. M. Hjort, 2
G. L. Hobby, 6
R. C. Hockett, 2
P. F. A. Hoefer, 1
M. S. Ingalls, 6
L. H. Jaffe, 4
N. Jolliffe, 1
J. A. Killian, 2
C. G. King, 2, 5
B. Kisch, 1
N. Kopeloff, 6
H. D. Kruse, 2, 5
L. S. Kubie, 4
A. La Belle, 1
H. W. Larson, 2
R. A. Lehman, 3
E. L. L'Esperance, 6
H. L. Ley, Jr., 6
P. A. Lief, 3
R. O. Loebel, 1R
L. Loewe, 3
E. M. Mackay, 1
F. Maltaner, 6
L. C. Mark, 3
A. E. Meyer, 1
L. C. Miller, 3
N. Molomut, 6
M. C. Morris, 6
C. N. Myers, 2R
J. E. Nadler, 3
F. F. Nord, 2
B. L. Oser, 5
S. Y. P'An, 3
L. G. Parmer, 3
M. E. Pennington, 2
E. Ponder, 1
E. J. Quinn, 2R, 5R
G. W. Rake, 6
N. Rakieten, 1
J. M. Reiner, 1
J. F. Reinhard, 3
L. K. Riggs, 2
W. H. Schultz, 1R, 3R
D. P. Seecof, 4
C. B. Shaffer, 3
C. A. Smith, 1
L. W. Smith, 4
K. C. Smithburn, 6
W. M. Sperry, 2
H. J. Spoor, 1
K. G. Stern, 2
P. Vogel, 6
A. Weil, 4
A. J. Weil, 6
A. White, 2, 5

Rensselaer

Sterling Winthrop Research Inst.

A. Arnold, 5
E. W. Dennis, 3, 6
J. O. Hoppe, 3
A. M. Lands, 1, 3
J. R. Lewis, 3
F. P. Luduena, 3
E. W. McChesney, 1
J. C. Seed, 3
M. L. Tainter, 1, 3

Rochester

Eastman Kodak Co.—Distillation Products Ind.

S. R. Ames, 2
N. D. Embree, 2
D. W. Fassett, 3
P. L. Harris, 2, 5
M. L. Quaife, 2, 5

Univ. of Rochester

E. F. Adolph, 1
E. L. Alling, 4
W. F. Bale, 1
H. A. Blair, 1
W. R. Bloor, 1R, 2
S. W. Clausen, 2
E. A. K. Culler, 1R
A. L. Dounce, 2
W. O. Fenn, 1
F. L. Haven, 2
W. B. Hawkins, 4
E. E. Hawley, 5
H. C. Hodge, 2, 3
J. W. Howland, 1, 4

K. E. Mason, 5
E. A. Maynard, 3
W. S. McCann, 2, 5
F. W. McKee, 4
L. L. Miller, 2
J. J. Morton, 4
J. R. Murlin, 1R, 2R, 5
E. S. Nasset, 1, 5
W. F. Neuman, 2, 3
H. E. Pearse, 4
W. T. Pommerenke, 1
H. Rahn, 1
F. S. Robscheit-Robbins, 1, 4
A. Rothstein, 1, 3
K. Salomon, 2
H. W. Scherp, 6
J. U. Schlegel, 1
J. K. Scott, 4
I. H. Slater, 3
D. J. Smith, 1
W. K. Smith, 1
J. N. Stannard, 1
E. H. Stotz, 2
R. Terry, 4
C. H. Whipple, 1, 4
R. F. Witter, 2
E. B. Wright, 1
C. L. Yuile, 4

Syracuse

STATE UNIV. MED. CENTER AT SYRACUSE, COLLEGE OF MEDICINE

P. B. Armstrong, 1
A. D. Bass, 3
M. S. Dooley, 3R
A. E. Farah, 3
H. A. Feldman, 6
S. S. Kalter, 6
F. P. Knowlton, 1R
V. F. Lindeman, 1
J. M. McKibbin, 2
G. K. Moe, 1, 3
O. H. Muller, 1
B. R. Rennick, 3
D. A. Richert, 2
J. S. Robb, 1, 3
O. W. Sartorius, 1
J. Tepperman, 1, 3
I. C. Wells, 2
W. W. Westerfeld, 2
V. J. Wulff, 1

New York—Unclassified

J. Bordley, III, 1
H. O. Burdick, 1
R. Cole, 4R, 6R
R. E. Conklin, 1
H. L. Dickison, 3
E. M. Frankel, 2
D. B. Hand, 2
K. C. Hickman, 2
S. E. Hill, 1
F. Klemperer, 2
R. J. Main, 1
W. S. McClellan, 1
E. M. Medlar, 4
I. M. Mountain, 6
J. A. Orcutt, 3
E. A. Pinson, 1
J. T. Roberts, 1
H. C. Sherman, 1R, 2, 5R
C. P. Sherwin, 2
J. E. Sweet, 1R
A. J. Vorwald, 4
G. W. Wright, 1

NORTH CAROLINA

Chapel Hill

UNIV. OF NORTH CAROLINA

C. E. Anderson, 2
J. C. Andrews, 2
K. M. Brinkhous, 4
J. H. U. Brown, 1
T. C. Butler, 3
W. J. Cromartie, 4
T. Z. Csaky, 3
E. C. Curnen, 6
F. W. Ellis, 3
J. H. Ferguson, 1
J. B. Graham, 4
E. P. Hiatt, 1
J. L. Irvin, 2
E. M. Irwin, 2
J. H. Lewis, 1
H. Lowenbach, 1
H. J. Magnuson, 4
A. T. Miller, Jr., 1
H. Tauber, 2
C. B. Taylor, 1, 4

Durham

DUKE UNIV.

J. W. Beard, 4, 6
R. F. Becker, 1
F. Bernheim, 2, 3
G. S. Eadie, 1, 3
F. L. Engel, 1
J. W. Everett, 1
K. S. Grimson, 1, 3
F. G. Hall, 1
P. Handler, 2, 5
J. P. Hendrix, 3
J. B. Hickam, 1
W. Kempner, 1
H. Lowenbach, 1
J. E. Markee, 1
F. D. McCrea, 1, 3
W. F. H. M. Mommaerts, 2
J. D. Myers, 1
K. E. Penrod, 1
B. Schmidt-Nielsen, 1
K. Schmidt-Nielsen, 1
G. W. Schwert, 2
D. T. Smith, 5, 6
S. G. Smith, 5
E. A. Stead, Jr., 1
H. M. Taylor, 4
J. V. Warren, 1
K. M. Wilbur, 1

Winston-Salem

BOWMAN GRAY SCHOOL OF MEDICINE

C. Artom, 2
J. J. Bronfenbrenner, 4, 6
H. D. Green, 1, 3
J. M. Little, 1, 3
M. A. Swanson, 2
W. A. Wolff, 2

North Carolina—Unclassified

M. H. Givens, 1, 2
H. Laurens, 1R
J. V. Maloney, 1
G. H. Satterfield 2, 5
S. T. Walton, 6
G. H. Wise, 5

NORTH DAKOTA

W. E. Cornatzer, 2
B. De Boer, 1, 3
D. F. Eveleth, 2

OHIO

Cincinnati

CHILDREN'S HOSP., RESEARCH FOUNDATION

M. L. Cooper, 6
G. M. Guest, 2
M. L. Weil, 6

CHRIST HOSP.

H. B. Hughes, 2
L. H. Schmidt, 2, 3
C. C. Smith, 3

CINCINNATI GENERAL HOSP.

E. A. Gall, 4
L. G. Herrmann, 4
C. A. Mills, 1, 2
I. Ruchman, 6

WM. S. MERRELL CO.

B. B. Brown, 3
F. J. Murray, 6
H. W. Werner, 3

UNIV. OF CINCINNATI

G. H. Acheson, 1, 3
M. A. Blankenhorn, 4
D. I. Crandall, 2
G. Eckstein, 1
M. H. Fischer, 1, 2
F. F. Heyroth, 2
R. A. Kehoe, 1
M. A. Logan, 2
W. D. Lotspeich, 1
A. Sabin, 6
H. E. Stokinger, 3, 6
S. Tashiro, 1R, 2
E F. Van Maanen, 3
C. K. Weichert, 1

CINCINNATI—UNCLASSIFIED

L. A. Chambers, 1, 6
K. A. Kuiken, 2
M. B. Macht, 1
E. C. Rosenow, 4, 6R

Cleveland

CITY HOSP.

T. D. Kinney, 4
J. D. Pilcher, 3R
R. W. Scott, 1, 3

CLEVELAND CLINIC FOUNDATION

A. C. Corcoran, 1
A. A. Green, 2
L. A. Lewis, 1
G. M. C. Masson, 1
I. H. Page, 1, 2
R. D. Taylor, 1

LAKESIDE HOSP.

C. S. Beck, 4
J. M. Hayman, Jr., 1, 3
H. Hirschmann, 2
C. H. Lenhart, 1R
J. T. Wearn, 1

WESTERN RESERVE UNIV.

R. S. Alexander, 1
A. E. Axelrod, 2, 5
R. M. Berne, 1
G. A. Brecher, 1
E. Bueding, 2, 3
G. L Cantoni, 3
C. E. Carter, 2
H. N. Cole, 3
M. E. Collett, 1
J. H. Dingle, 6
E. E. Ecker, 4, 6
R. W. Eckstein, 1

H. J. Gerstenberger, 5R
H. Gest, 2
H. S. Ginsberg, 6
G. R. Greenberg, 2
R. W. Heinle, 5
H. A. Hunscher, 5
S. Koletsky, 4
L. O. Krampitz, 2, 6
J. O. Lampen, 2
P. S. Lavik, 2
J. R. Leonards, 2
S. Levey, 2
M. M. Levy, 1
V. Lorber, 1
A. R. Moritz, 4
J. A. Muntz, 2
R. F. Parker, 4, 6
L. Peters, 3
L. Pillemer, 2, 6
C. H. Rammelkamp, Jr., 6
W. Sakami, 2
E. E. Selkurt, 1
T. Sollman, 1R, 2, 3R
A. B. Stavitsky, 6
M. F. Utter, 2
A. D. Welch, 2, 3, 5
C. J. Wiggers, 1, 3R
H. G. Wood, 2

CLEVELAND—UNCLASSIFIED

R. Dominguez, 1
F. R. Mautz, 1
F. C. Robbins, 6
R. A. Shipley, 1
J. M. Werle, 1
N. C. Wetzel, 5

Columbus

OHIO STATE UNIV.

C. A. Angerer, 1
E. Bozler, 1
J. B. Brown, 2, 5
K. A. Brownell, 1
G. M. Curtis, 1, 4
C. A. Doan, 4
M. Dodd, 6
E. P. Durrant, 1R
R. C. Grubbs, 1
F. A. Hartman, 1
F. A. Hitchcock, 1, 5
M. Koehne, 5R
M. A. Lessler, 1
W. G. Myers, 1
E. Ogden, 1
I. Rothchild, 1
L. A. Sapirstein, 1
S. Saslow, 6
H. G. Schlumberger, 4
G. Y. Shinowara, 2
R. W. Stacy, 1
T. S. Sutton, 5
E. von Haam, 4
B. K. Wiseman, 4

Dayton

USAF, AERO MED. LAB.

J. W. Heim, 1
J. P. Henry, 1
R. F. Kline, 1
H. O. Parrack, 1
H. M. Sweeney, 1
J. W. Wilson, 1

Toledo

E. L. Burns, 4
L. A. Levison, 6
B. Steinberg, 4, 6

Ohio—Unclassified

A. W. Bosworth, 2, 5R
L. Catron, 4
A. Goudsmit, Jr., 1
D. E. Jackson, 1R, 3R
W. E. Krauss, 2, 5
J. F. Lyman, 2R, 5R
C. G. Rogers, 1R
P. W. K. Rothemund, 2

OKLAHOMA

Oklahoma City

UNIV. OF OKLAHOMA

M. R. Everett, 2
A. A. Hellbaum, 1, 3
H. C. Hopps, 4, 6
A. Kurtz, 2
E. C. Mason, 1
F. Sheppard, 2
H. A. Shoemaker, 3
P. W. Smith, 1, 3
A. N. Taylor, 1

OKLAHOMA CITY—UNCLASSIFIED

M. N. Huffman, 2
C. D. Kochakian, 1, 2
S. G. Wolf, 1

Stillwater

OKLAHOMA A & M COLLEGE

W. D. Gallup, 2
V. G. Heller, 2, 5R
R. MacVicar, 2

Oklahoma—Unclassified

R. M. Bird, 1

OREGON

Corvallis

OREGON STATE COLLEGE

J. S. Butts, 2, 5
V. H. Cheldelin, 2, 5
M. L. Fincke, 5
Tsoo E. King, 2
H. M. Krueger, 1, 3
C. A. Storvick, 5
R. Wulzen, 1R

Portland

UNIV. OF OREGON

C. H. Beatty, 1
W. D. Blake, 1
J. M. Brookhart, 1
N. A. David, 3
R. S. Dow, 1
H. F. Haney, 1
C. G. Heller, 1
E. L. McCawley, 3
A. R. Moore, 1
N. M. Phatak, 3
F. B. Queen, 4
W. R. Todd, 2, 5
A. R. Tunturi, 1
J. T. Van Bruggen, 2
E. S. West, 2

Oregon—Unclassified

A. M. Bahrs, 1
J. D. Greaves, 2
J. R. Haag, 2, 5
A. C. Kirchhof, 3
I. A. Manville, 1
B. T. Scheer, 1

PENNSYLVANIA

Philadelphia Area

CHILDREN'S HOSP.

S. S. Cohen, 2
T. N. Harris, 6
F. Karush, 6
M. M. Sigel, 6
J. Smolens, 6

HAHNEMANN MED. COLLEGE

T. C. Barnes, 1, 3
A. Bondi, 6
M. J. Boyd, 2
B. Calesnick, 3
J. R. DiPalma, 1
W. C. Foster, 1
J. E. Gregory, 6
J. S. Hepburn, 2
J. F. McClendon, 1R, 2, 5R
E. A. Reed, 1
J. C. Scott, 1
F. J. Wiercinski, 1

JEFFERSON MED. COLLEGE

A. Cantarow, 1, 3
J. O. Crider, 1
S. A. D'Angelo, 1
R. H. De Meio, 2
M. H. F. Friedman, 1
K. Goodner, 6
C. M. Gruber, 1, 3
C. M. Gruber, Jr., 3
C. P. Kraatz, 3
F. R. Miller, 4
M. P. Munro, 2
K. E. Paschkis, 1
W. H. Pearlman, 2
I. J. Pincus, 1
H. A. Reimann, 4
J. J. Schneider, 2
W. J. Snape, 1
F. W. Sunderman, 2
J. E. Thomas, 1, 3
L. M. Tocantins, 1
I. H. Wagman, 1
J. M. Waldron, 1

LANKENAU HOSP. RESEARCH INST.

M. A. Bennett, 2
T. F. Lavine, 2
G. Medes, 2
S. P. Reimann, 1, 4
C. Riegel, 2
J. A. Stekol, 2, 5
G. Toennies, 2
S. Weinhouse, 2

SHARP AND DOHME, INC.

L. E. Arnow, 2
R. H. Barnes, 2, 5
K. H. Beyer, 1, 3
W. P. Boger, 3
D. K. Bosshardt, 5
J. W. Huff, 2
L. A. Kazal, 2
J. Munoz, 6
A. A. Tytell, 2, 6
L. D. Wright, 2, 5

TEMPLE UNIV.

J. R. Bobb, 1
W. E. Chamberlain, 1
D. A. Collins, 1
S. Ellis, 3
J. D. Evans, 1
E. M. Greisheimer, 1
J. A. Harrison, 6
W. M. Hart, 1
J. A. Kolmer, 6R
S. A. Komarov, 1
A. E. Livingston, 1, 3R
S. H. Lorber, 1
V. Menkin, 1, 4, 6
M. J. Oppenheimer, 1
G. C. Ring, 1
H. W. Robinson, 2
H. Shay, 1
E. H. Spaulding, 6
E. A. Spiegel, 1
M. Spiegel-Adolf, 2
L. Tuft, 6

USDA, EASTERN REGIONAL RESEARCH LAB.

W. G. Gordon, 2
S. R. Hoover, 2
T. L. McMeekin, 2
L. Weil, 2
C. A. Zittle, 2

UNIV. OF PENNSYLVANIA

W. H. F. Addison, 1R
D. M. Aviado, Jr., 1, 3
C. Bachman, 2
P. E. Boyle, 4
C. Breedis, 4
J. R. Brobeck, 1
J. M. Buchanan, 2
W. W. Chambers, 1
B. Chance, 1, 2
E. R. Clark, 1R
D. R. Coman, 4
J. H. Comroe, Jr., 1, 3
F. C. Dohan, 1
D. L. Drabkin, 2, 5
R. D. Dripps, 1, 3
P. R. Dumke, 3
J. E. Eckenhoff, 1
M. R. Ehrenstein, 2
W. Ehrich, 4
J. R. Elkinton, 1
L. K. Ferguson, 4
L. B. Flexner, 1, 2
J. A. Flick, 6
E. W. Flosdorf, 6
R. E. Forster II, 1
S. Gurin, 2
P. Gyorgy, 2, 5
J. H. Hafkenschiel, Jr., 1, 3
L. V. Heilbrunn, 1
W. Henle, 6
R. Hober, 1R
J. Hughes, 1
M. H. Jacobs, 1
J. H. Jones, 2, 5
R. Jones, Jr., 3
S. S. Kety, 1, 3
G. B. Koelle, 3
E. B. Krumbhaar, 1R, 4
C. J. Lambertsen, 3
W. H. Lewis, 1R
J. C. Lilly, 1
E. Lodholz, 1
E. R. Long, 4
B. Lucke, 4
F. D. W. Lukens, 1
M. B. Lurie, 4, 6
G. P. McCouch, 1
F. H. McCutcheon, 1
M. McCutcheon, 4
H. Montgomery, 1
S. Mudd, 1, 4, 6
W. M. Parkins, 1
R. Penneys, 1
L. H. Peterson, 1
W. J. Rashkind, 1
H. L. Ratcliffe, 4
I. S. Ravdin, 1, 4
J. G. Reinhold, 2
J. E. Rhoads, 1
A. N. Richards, 1R, 2, 3R
O. Rosenthal, 2
J. L. Roth, 1
C. F. Schmidt, 1, 3
D. Scott, Jr., 1
F. B. Seibert, 2
M. G. Sevag, 2, 6
H. Shapiro, 1
W. B. Shelley, 1
J. C. Small, 4
W. C. Stadie, 2
I. Starr, 1, 3
P. Therman, 1
H. M. Vars, 2, 5
D. W. Wilson, 1, 2
H. C. Wood, Jr., 3R
I. T. Zeckwer, 1, 4
I. Zeidman, 4

WOMAN'S MED. COLLEGE

P. A. Bott, 2
N. B. Dreyer, 3
M. Fay, 2
H. R. Hafkesbring, 1
M. E. Maxfield, 1
W. B. Stewart, 1

WYETH, INC.

G. E. Farrar, Jr., 3
E. F. Roberts, 6
J. Seifter, 3

PHILADELPHIA AREA—UNCLASSIFIED

C. P. Brown, 6
E. J. Fellows, 3
T. S. Githens, 1R
S. Kletzien, 5
G. J. Martin, 2
P. A. Mathis, 3
G. L. Miller, 2
L. J. Saul, 1
C. V. Smythe, 2
C. Weiss, 4, 6

Pittsburgh

UNIV. OF PITTSBURGH

L. V. Beck, 1
H. S. Belding, 1
F. S. Cheever, 6
G. J. Cox, 2, 5
L. H. Cretcher, 2
L. N. Criep, 6
T. S. Danowski, 1
F. J. Dixon, Jr., 4, 6
W. M. Hammon, 4, 6
K. Hofmann, 2
D. Hooker, 1
T. K. Kruse, 1, 3
G. R. Lacy, 4
M. A. Lauffer, Jr., 2
H. E. Longenecker, 2, 5
R. H. McCoy, 2, 5
W. McEllroy, 2
P. L. McLain, 1, 3
I. A. Mirsky, 1
C. Moses, 1
R. E. Olson, 2, 5
A. G. Renfrew, 2
C. H. W. Ruhe, 1
J. E. Salk, 6
C. B. Shaffer, 3
J. L. Svirbely, 3
R. S. Tipson, 2
J. S. Younger, 6

PITTSBURGH—UNCLASSIFIED

B. F. Daubert, 2
F. F. Foldes, 3
R. C. Grauer, 4
R. R. Mellon, 6
H. H. Permar, 4
J. D. Reese, 4
A. H. Stock, 6
F. A. Taylor, 2

State College

PENNSYLVANIA STATE COLLEGE

A. Black, 5
R. V. Boucher, 5
M. L. Dodds, 5R
R. A. Dutcher, 2, 5
E. B. Forbes, 1R, 5R
C. E. French, 5
N. B. Guerrant, 2, 5
R. C. Miller, 5
R. W. Swift, 5
E. D. Wilson, 5

Pennsylvania—Unclassified

J. D. Aronson, 4, 6
A. Dury, 1
M. S. McCouch, 1
J. H. Hewetson, 5
E. S. Mendelson, 1
L. H. Weed, 1R
S. L. Wright, 2

PUERTO RICO

C. F. Asenjo, 2, 5
J. H. Axtmayer, 5
C. B. Casas, 1
M. Goettsch, 2, 5
R. M. Reinecke, 1
L. J. Roberts, 5
D. B. Tyler, 1, 3

RHODE ISLAND

Providence

BROWN UNIV.

P. F. Fenton, 1, 5
F. G. Sherman, 1
C. A. Stuart, 6
J. W. Wilson, 1, 4

SOUTH CAROLINA

Charleston

MED. COLLEGE OF THE STATE OF SOUTH CAROLINA

T. G. Bernthal, 1
F. W. Kinard, 1
M. H. Knisely, 1
J. A. Richardson, 3
R. P. Walton, 3

SOUTH DAKOTA

Vermillion

UNIV. OF SOUTH DAKOTA

R. S. Anderson, 1
F. E. Kelsey, 3
F. K. Kelsey, 3

South Dakota—Unclassified

A. L. Moxon, 2

TENNESSEE

Knoxville and Memphis

UNIV. OF TENNESSEE

R. H. Alden, 1
R. V. Brown, 1, 3
S. R. Bruesch, 1
G. W. Changus, 4
A. D. Dulaney, 6
C. C. Erickson, 4
J. D. Hardy, 1
C. R. Houck, 1
R. S. Jones, 4
R. C. Little, 1
F. L. MacLeod, 2, 5
D. B. Morrison, 2
T. P. Nash, Jr., 2
R. R. Overman, 1
J. P. Quigley, 1, 3
H. C. Schmeisser, 4
D. H. Sprunt, 4, 6
S. R. Tipton, 1
L. Van Middlesworth, 1
M. R. Warren, 3
J. L. Wood, 2
R. A. Woodbury, 1, 3
D. B. Zilversmit, 1

Nashville

MEHARRY MED. COLLEGE

R. J. Cazort, 3
H. Goldie, 6
P. F. Hahn, 1, 4
R. A. Lambert, 4
D. T. Rolfe, 1
H. D. West, 2

VETERANS ADMINISTRATION HOSP.

F. Gollan, 1
G. R. Meneely, 1, 4
N. S. Olsen, 1, 2

VANDERBILT UNIV.

F. R. Blood, 1
M. T. Bush, 3
W. J. Darby, 2, 5
E. W. Goodpasture, 4
C. M. Greer, 3
M. E. Greig, 3
W. C. Holland, 3
J. M. Johlin, 2R
C. E. King, 1
P. D. Lamson, 1, 3R
H. C. Meng, 1
A. S. Minot, 1
E. V. Newman, 1
R. L. Post, 1
C. C. Randall, 4
B. H. Robbins, 3
C. S. Robinson, 2
O. Touster, 2
J. B. Youmans, 5

Oak Ridge

OAK RIDGE NATL. LAB.

H. D. Bruner, 3
S. F. Carson, 2
W. E. Cohn, 2
C. L. Comar, 5
J. Furth, 4
A. Hollaender, 1
G. C. Kyker, 2
C. W. Sheppard, 1
J. R. Totter, 2

Tennessee—Unclassified

O. T. Avery, 4, 6R
G. E. Cronheim, 3
W. B. Dunham, 6
O. S. Gibbs, 3

TEXAS

Austin

UNIV. OF TEXAS

J. E. Davis, 1, 3
R. E. Eakin, 2
J. W. Foster, 2
E. J. Lund, 1
L. J. Reed, 2
W. Shive, 2
E. E. Snell, 2, 5
R. J. Williams, 2
O. Wyss, 2

College Station

A & M COLLEGE OF TEXAS

J. R. Couch, 5
C. M. Lyman, 2, 5
L. R. Richardson, 5

Dallas

SOUTHWESTERN MED. SCHOOL

A. Goth, 3
A. Grollman, 1, 3
F. Harrison, 1
R. W. Lackey, 1
E. E. Muirhead, 4
S. E. Sulkin, 6
H. C. Tidwell, 2

DALLAS—UNCLASSIFIED

S. Haberman, 6
M. F. Mason, 2
F. Pearcy, 1
J. J. Quilligan, 6
F. T. Rogers, 1

Galveston

UNIV. OF TEXAS

C. R. Allen, 1
O. A. Bessey, 2, 5
D. B. Calvin, 1, 2
G. A. Emerson, 3
J. C. Finerty, 1
R. Greenberg, 1
R. L. Gregory, 1
M. M. Guest, 1
C. E. Hall, 1
A. E. Hansen, 4, 5
G. R. Herrmann, 4
C. D. Leake, 1, 3
R. M. Moore, 1
W. W. Nowinski, 1
A. Packchanian, 6
C. M. Pomerat, 1
E. L. Porter, 1
E. J. Poth, 1
R. H. Rigdon, 4
G. R. Seaman, 1
H. G. Swann, 1
H. F. Wiese, 5

Houston

BAYLOR UNIV.

K L. Burdon, 6
J. A. Greene, 1
B. Halpert, 4
C. A. Handley, 3
H. E. Hoff, 1
R. A. Huggins, 3
P. E. Kellaway, 1
J. H. Moyer, III, 3

UNIV. OF TEXAS

J. Awapara, 2
E. Beerstecher, Jr., 2
E. L. Smith, 1

Randolph Field

U. S. SCHOOL OF AVIATION MEDICINE

H. F. Adler, 1
O. O. Benson, Jr., 1
H. I. Chinn, 1 3
U. C. Luft, 1
W. K. Noell, 1
H. Strughold, 1

San Antonio

J. B. Loefer, 1
H. J. Schattenberg, 4
R. D. Templeton, 1
N. T. Werthessen, 1
H. S. Wigodsky, 1

Texas—Unclassified

J. D. Ainslie, 6
H. H. Beard, 2
E. A. Blair, 1
N. C. Hightower, 1

UTAH

Logan

UTAH STATE AGRICULTURAL COLLEGE

C. Biddulph, 1
D. A. Greenwood, 3
L. L. Madsen, 5

Salt Lake City

UNIV. OF UTAH

M. D. Armstrong, 2
H. L. Borison, 1, 3
G. E. Cartwright, 5
H. W. Davenport, 1
V. D. Davenport, 1
S. R. Dickman, 2
T. F. Dougherty, 1
C. Fenning, 1
L. S. Goodman, 1, 3
C. J. Gubler, 5
F. D. Gunn, 4
S. C. Harvey, 3
W. S. Loewe, 3
S. Marcus, 6
L. T. Samuels, 2, 3, 5
G. Sayers, 1, 3
E. L. Smith, 2
E. A. Swinyard, 3
D. M. Woodbury, 3

SALT LAKE CITY—UNCLASSIFIED

R. W. Doty, 1
H. H. Hecht, 1
C. McNeil, 6
M. M. Wintrobe, 4

VERMONT

Burlington

UNIV. OF VERMONT

A. H. Chambers, 1
P. G. Le Fevre, 1
A. B. Novikoff, 2
H. B. Pierce, 2, 5
W. Raab, 1
W. B. Robertson, 2
F. J. M. Sichel, 1
E. Woll, 4

Vermont—Unclassified

C. Voegtlin, 1R, 2, 3R

VIRGINIA

Charlottesville

UNIV. OF VIRGINIA

W. P. Anslow, Jr., 2
S. W. Britton, 1
J. R. Cash, 4
A. Chanutin, 2
H. F. Chase, 3
E. L. Corey, 1
A. E. Feller, 6
C. L. Gemmill, 1, 2, 3
D. R. H. Gourley, 1
H. Hoch, 2
S. Ludewig, 2
J. F. A. McManus, 4
G. C. Pitts, 1
H. Silvette, 1, 3
D. T. Watts, 3

Richmond

MED. COLLEGE OF VIRGINIA

L. D. F. Abbott, Jr., 2
F. L. Apperly, 4
L. E. Edwards, 1
E. I. Evans, 1
J. K. Finnegan, 3
E. Fischer, 1
J. C. Forbes, 2
H. B. Haag, 3
E. C. Hoff, 1
E. G. Huf, 1
P. S. Larson, 1, 3
R. W. Ramsey, 1
R. B. Smith, Jr., 3
J. H. Weatherby, 3
G. Z. Williams, 4

Virginia—Unclassified

G. K. Cotts, 3
E. L. Jackson, 3

WASHINGTON

Pullman

STATE COLLEGE OF WASHINGTON

D. S. Farner, 1
J. McGinnis, 5
B. C. Schneider, 5
C. M. Stevens, 2

Seattle

UNIV. OF WASHINGTON

H. S. Bennett, 1
L. D. Carlson, 1
J. M. Dille, 3
C. A. Evans, 6
C. A. Finch, 1
D. J. Hanahan, 2
H. N. Harkins, 1
F. M. Huennekens, 2
E. G. Krebs, 2
S. W. Lippincott, 4
T. A. Loomis, 3
A. W. Martin, Jr., 1
H. Neurath, 2, 6
H. D. Patton, 1
J. I. Rowntree, 5
T. C. Ruch, 1
R. F. Rushmer, 1
A. A. Ward, Jr., 1
R. S. Weiser, 6
H. Wheelon, 1
R. H. Williams, 4
J. W. Woodbury, 1
A. C. Young, 1

SEATTLE—UNCLASSIFIED

E. D. Clark, 2
C. P. Wangeman, 3

WEST VIRGINIA

Morgantown

WEST VIRGINIA UNIV.

D. W. Northup, 1
J. C. Stickney, 1
E. J. Van Liere, 1

West Virginia—Unclassified

J. Nichols, 1

WISCONSIN

Madison

UNIV. OF WISCONSIN

D. M. Angevine, 4
C. A. Baumann, 2, 5
H. D. Bouman, 1
R. H. Burris, 2
R. T. Capps, 3
P. F. Clark, 4, 6
P. P. Cohen, 2
W. W. Cravens, 5
G. W. Crumpton, 3
H. F. Deutsch, 2
C. A. Elvehjem, 2, 5
J. A. E. Eyster, 1, 3R
J. D. Ferry, 2
J. R. Gorham, 6
D. E. Green, 2
S. Grisolia, 2
J. W. Harman, 4
E. B. Hart, 2, 5R
C. Heidelberger, 2
R. C. Herrin, 1
M. R. Irwin, 6
M. J. Johnson, 2
F. L. Kozelka, 3
J. J. Lalich, 4
H. A. Lardy, 2
E. M. Larsen, 1
G. A. Le Page, 2
K. P. Link, 2
R. W. McGilvery, 2
W. H. McShan, 2
W. J. Meek, 1
R. K. Meyer, 1
E. C. Miller, 2
J. A. Miller, 2
P. R. Morrison, 2
G. C. Mueller, 2
Q. R. Murphy, 1
O. S. Orth, 1, 3
H. T. Parsons, 2R, 5R
W. H. Peterson, 2, 5
P. H. Phillips, 2, 5
G. W. E. Plaut, 2
V. R. Potter, 2
M. S. Reynolds, 5
H. P. Rusch, 4
D. R. Sanadi, 2
C. V. Seastone, Jr., 6
M. A. Stahmann, 2
H. Steenbock, 2, 5
J. E. Steinhaus, 3
W. E. Stone, 1
F. M. Strong, 2
A. L. Tatum, 1, 3
L. J. Teply, 2
H. A. Waisman, 2
J. N. Williams, Jr., 2
J. W. Williams, 2
P. W. Wilson, 2
H. R. Wolfe, 6
C. N. Woolsey, 1
W. B. Youmans, 1, 3

Milwaukee

MARQUETTE UNIV.

W. A. D. Anderson, 4
H. Beckman, 3
J. C. Bock, 2
M. Laskowski, 2
A. J. Quick, 2, 3

Wisconsin—Unclassified

G. H. Berryman, 1
H. Levine, 2, 5
V. E. Nelson, 2
B. H. Schlomovitz, 1
F. Urban, 2

WYOMING

J. Blumenstock, 1

CANADA

Alberta

Univ. of Alberta

A. W. Downs, 1R
H. B. Collier, 2
L. W. McElroy, 5
H. V. Rice, 1
J. Tuba, 2

Alberta—Unclassified

M. K. McPhail, 3

British Columbia

Univ. of British Columbia

F. C. Black, 1
D. H. Copp, 1
C. E. Dolman, 6
S. M. Friedman, 1
E. S. Goranson, 1
M. A. Kennard, 1

British Columbia—Unclassified

C. A. Forssander, 1
M. L. Menten, 1R, 4
H. L. A. Tarr, 2

Manitoba

Univ. of Manitoba

G. E. Delory, 2
J. Doupe, 1
V. H. K. Moorhouse, 1
F. D. White, 2

New Brunswick

E. A. G. Branch, 4
R. J. Collins, 3

Nova Scotia

C. B. Weld, 1
E. G. Young, 2

Ontario

Dept. of Health and Welfare

J. A. Campbell, 5
J. Gibbard, 6
F. C. Lu, 3
C. A. Morrell, 3
L. B. Pett, 5
L. I. Pugsley, 2

Queen's Univ

E. M. Boyd, 3
C. H. Ettinger, 1
R. H. More, 1

Univ. of Toronto

E. Baer, 2
C. H. Best, 1, 2
G. C. Butler, 2
J. Campbell, 1
W. R. Campbell, 2
T. G. H. Drake, 5
J. K. W. Ferguson, 1, 3
A. M. Fisher, 2
K. C. Fisher, 1
D. T. Fraser, 6
R. E. Haist, 1
A. W. Ham, 4
W. S. Hartroft, 4
A. Hunter, 2
W. Kalow, 3
C. C. Lucas, 2
G. H. W. Lucas, 2, 3
J. F. Manery, 1
J. Markowitz, 1
E. W. McHenry, 2, 5
E. C. Robertson, 5
D. A. Scott, 2
E. A. Sellers, 1
C. O. Siebenmann, 3
D. Y. Solandt, 1
H. Wasteneys, 2R
A. M. Wynne, 2

Univ of Western Ontario

A. C. Burton, 1
J. B. Collip, 1, 2
C. W. Gowdey, 3
A. B. Macallum, 2
R. L. Noble, 1
R. J. Rossiter, 2
G. W. Stavraky, 1, 3
J. A. F. Stevenson, 1
R. A. Waud, 3

Ontario—Unclassified

C. C. Benson, 2
H. D. Branion, 5
R. B. Bromiley, 1
J. Hunter, 1
J. R. Johnson, 1
L. G. Kilborn, 1
G. W. Manning, 1
W. D. McFarlane, 2
F. R. Miller, 1
M. E. M. Sawyer, 1
N. B. Taylor, 1

Quebec

Laval Univ.

R. Bernard, 1
L. P. Dugal, 1
E. Page, 1

McGill Univ.

I. T. Beck, 3
W. Bourne, 3
J. S. L. Browne, 1
A. S. V. Burgen, 1, 3
R. A. Cleghorn, 1
E. W. Crampton, 5
O. F. Denstedt, 2
S. Dworkin, 1
K. A. C. Elliott, 2
H. H. Jasper, 1
F. C. MacIntosh, 1, 3
K. I. Melville, 3
E. G. D. Murray, 6
W. G. Penfield, 1
J. H. Quastel, 2
R. L. Stehle, 2, 3
D. L. Thomson, 2
E. H. Venning, 2

Univ. of Montreal

V. Fredette, 6
H. Selye, 1
P. S. Timiras, 3

Quebec—Unclassified

H. Lubinski, 6
C. F. MacPherson, 2
C. E. Rice, 6

Saskatchewan

L. B. Jaques, 1

MEXICO

Mexico, D.F.

E. C. Del Pozo, 1
F. Guerra, 3
J. J. Izquierdo, 1
R. Mendez, 3
A. Rosenblueth, 1

OUTSIDE NORTH AMERICA

Argentina

V. Deulofeu, 2
B. Houssay, 1H

Australia

A. Bolliger, 2

Austria

S. Rapoport, 2

Brazil

O Bier, 6
J. G. Lacorte, 6
M. Rocha y Silva, 3
J. R. Valle, 3

Belgium

F. Bremer, 1H
C. Heymans, 3

British West Indies

I. F. S. Mackay, 1

Burma

R. G. Page, 3

China

H. C. Hou, 5

Colombia

K. Mezey, 3

Denmark

H. Dam, 2, 5
E. Jacobsen, 3
H. M. Kalckar, 2
H. von Magnus, 6
H. Wollenberger, 3

England

E. D. Adrian, 1H
H. H. Dale, 3H
O. G. Edholm, 1
M. P. Fitzgerald, 1R
A. V. Hill, 1H
G. Hunter, 2
F. W. Putnam, 2
C. White, 1

Finland

P. K. Roine, 5

France

J. H. Bauer, 4
A. Bussard, 6
M. Cohn, 6
L. Lapicque, 1H
B. Minz, 3

Germany

R. Thauer, 1

Greece

J. Caminopetros, 6
G. Joachimoglu, 3

Guatemala

N. S. Scrinshaw, 5

Holland

B. Mendel, 2

India

H. N. Chatterjee, 6
R. N. Chopra, 3H
N. N. De, 3
E. D. Mason, 1
B. Mukherji, 3

Israel

M. C. Shelesnyak, 1

Italy

M. Ajazzi-Mancini, 3
C. Chatfield, 5
N. Ercoli, 3

Jordan

T. P. Hughes, 6

Lebanon

W. H. Adolph, 2, 5
S. E. Kerr, 2
H. A. Reimann, 4

Norway

J. Molland, 3

Peru

V. Zapata-Oritz, 3

Philippines

E. Bulatao, 1
F. O. Santos, 5

Poland

L. Hirszfeld, 6
J. Kaulbersz, 1

Scotland

E. P. Cathcart, 5R
J. H. Gaddum, 3

Sweden

G. Liljestrand, 1H

Switzerland

W. R. Hess, 1H
R. Meier, 3
J. M. Posternak, 1
E. Rothlin, 3
A. Stoll, 3

U.S.S.R.

L. A. Orbeli, 1H

INDEX TO VOLUME 11

ABSTRACTS of papers, 36th Annual Meeting
Author index, i, 605
Biochemistry, 179
Corrections and additions, 623
Immunology, 461
Nutrition, 435
Pathology, 407
Pharmacology, 317
Physiology, 3
ALEXANDER, ROBERT S. Factors determining contour of pressure pulses recorded from the aorta, 738
Annual Meeting
New York City (1952), 491, 621
Chicago (1953), 815
Antigenic variation of influenza viruses, symposium, 590, 799
Author index, annual meeting, i, 605

BAIN, J. A. Enzymatic aspects of barbiturate action, 653
Barbiturates, symposium (Fall meeting, Society for Pharmacology and Experimental Therapeutics, 1951), 625
Barbiturates
dialkyl-, metabolism, 625
and enzymes, 653
metabolism, 640
neurophysiological effects, 647
thiobarbiturates, metabolism, 632
BERLINER, ROBERT W. Renal secretion of potassium and hydrogen ions, 695
Biological Chemists, Society of
Abstracts, 1952 meeting, 179
Constitution and Bylaws, 829
Officers, 828
Program, 1952 meeting, 525
Symposium on relationships between certain B-vitamins and purines and pyrimidines, 534
Body composition and age, 784
BREWER, W. D., 775
BRODIE, BERNARD B. Physiological disposition amd chemical fate of thiobarbiturates in the body, 632
BRODY, SAMUEL. Facts, fables and fallacies on feeding world population, 681
BROZEK, JOSEF. Changes of body composition in man during maturity and their nutritional implications, 784

CALCIUM balance and age, 775
Cardiac output, determination, 733, 738, 750, 762, 767
Cardiac stroke index, 733, 738, 750, 762, 767
Central pulse form, alterations, 732, 733, 738, 750, 762, 767
CHALOUPKA, M., 775
Constitution and Bylaws, Federation, 821
Corrections to March issue, 623
Council and Committee Meetings, Directory, 603

DAVENPORT, HORACE W. Substrate and oxygen consumption during gastric secretion, 715
Deceased members, 939
Dialkylbarbiturates, metabolism, 625
Directory of special meetings, 603

ELECTROLYTES
excretion, 695, 701
gastric secretion, 706
symposium on excretion, 507, 695

FEDERATION
Board, 1952–1953, 817
Constitution and Bylaws, 821
Deceased Members, 939
Former Executive Committees, 817
Joint Session, 492, 667
Meetings, New York City (1952), 491, 621; Chicago (1953), 815
Membership list
alphabetical, 845
geographical classification, 941
Placement Service, 813
Food and population, observations in India, 667
FORBES, W. H. Food and population illustrated by observations in India, 667
FRANCIS, THOMAS, JR. Significance of antigenic variation of influenza viruses in relation to vaccination in man, 808

GASTRIC secretion, 715
Geriatric nutrition, symposium, 581, 775
GRAM, M. R., 775

H IONS, renal secretion, 695
HILLEMAN, M. R. Pattern of antigen variation, 798
HOLLANDER, FRANKLIN. Gastric secretion of electrolytes, 706
HORSFALL, FRANK L., JR. Biological selection of antigenic variants, 804
HUGGINS, RUSSELL A. AND E. L. SMITH. Validity of pulse contour method for determining cardiac output, 767

IMMUNOLOGISTS, Association of
Abstracts, 1952 meeting, 461
Constitution and Bylaws, 842
Officers, 842

Program, 1952 meeting, 587
Symposium on antigenic variation of influenza viruses, 590, 798
Symposium on uses and value of human gamma globulin, 592
Increase of food supply, possibilities, 675
Influenza viruses, antigenic variation, 798, 804, 808

JACKSON, L., 775
Joint Session, 492, 667

LEVERTON, R. M., 775
LUTZ, R., 775

MANGEL, M., 775
MAYNARD, L. A. Agricultural and industrial possibilities of increasing food supply, 675
MAYNERT, E. W. Distribution and fate of dialkylbarbiturates, 625
Membership, Federation
Alphabetical list, 845
Deceased members, 939
Geographical classification, 941
Summary of membership, 939
Metabolism
of barbiturates, 640
of dialkylbarbiturates, 625
protein, in surgical patients, 659
of thiobarbiturates, 632
Motion picture session, 492

NEW York City meeting, (1952), 491, 621
Nitrogen balance, and age, 775
Nutrition and age, 794
Nutrition, Institute of
Abstracts, 1952 meeting, 435
Constitution and Bylaws, 839
Officers, 839
Program, 1952 meeting, 579
Symposium on geriatric nutrition, 581, 775
Symposium on utilization of protein, 659

O_2 consumption and gastric secretion, 715
OHLSON, MARGARET A., W. D. BREWER, L. JACKSON, P. P. SWANSON, P. H. ROBERTS, M. MANGEL, R. M. LEVERTON, M. CHALOUPKA, M. R. GRAM, M. S. REYNOLDS AND R. LUTZ. Intakes and retentions of nitrogen, calcium and phosphorus by 136 women between 30 and 85 years of age, 775
OPDYKE, D. F. Genesis of pressure pulse contour method for calculating cardiac stroke index, 733

PANCREAS, electrolyte secretion, 722
Pathology, Society for Experimental
Abstracts, 1952 meeting, 407
Constitution and Bylaws, 837
Officers, 837
Program, 1952 meeting, 571
PETERSON, L. H. Certain physical characteristics of cardiovascular system and their significance in problem of calculating stroke volume from arterial pulse, 762
Pharmacology and Experimental Therapeutics, Society for
Abstracts, 1952 meeting, 317
Constitution and Bylaws, 833
Officers, 833
Program, 1952 meeting, 553
Symposium on design and interpretation of clinical experiments with drugs, 553
Symposium on fate and mechanism of action of barbiturates, 625
Phosphorus balance and age, 775
Physiological Society
Abstracts, 1952 meeting, 3
Constitution and Bylaws, 825
Officers, 824
Panel discussion on interpretation and significance of alterations in central pulse form, 507, 732
Program, 1952 meeting, 493
Symposium on radiation protection, 500
Symposium on secretion of electrolytes, 507, 695
Placement Service, Federation, 813, 822
Population and food problems, 667, 675, 681
Potassium, renal secretion, 695
Pulse contour method, 733, 738, 750, 762, 767

REMINGTON, J. W. Volume quantitation of the aortic pressure pulse, 750
REYNOLDS, M. S., 775
RHOADS, J. E. Protein nutrition in surgical patients, 659
ROBERTS, P. H., 775

SECRETION of electrolytes, 695, 701, 706, 715, 722
SHIDEMAN, F. E. In vitro metabolism of barbiturates, 640
SMITH, E. L., 767
SMITH, HOMER W. Renal excretion of sodium and water, 701
Sodium excretion, 701
SOLOMON, A. K. Electrolyte secretion in the pancreas, 722
Subject index, abstracts, xvii
SWANSON, P. P., 775
Symposia and special sessions, New York City meeting (1952)
Antigenic variation of influenza viruses, 590, 798
B-vitamins and purines and pyrimidines, 534
Central pulse form, 507, 732

Clinical experiments with drugs, 553
Geriatric nutrition, 581, 775
Human gamma globulin, 592
Radiation protection, 500
Secretion of electrolytes, 507, 695
Teaching of physiology, 507
Symposium, Cleveland meeting (1951)
Utilization of protein, 659
Symposium, Fall meeting of Pharmacology Society (1951)
Fate and mechanism of action of barbiturates, 625

THIOBARBITURATES, metabolism, 632

VIRUSES, influenza, 798, 805, 809

WATER excretion, 701
WIKLER, A. Relationships between clinical effects of barbiturates and their neurophysiological mechanisms of action, 647
World food problems, 667, 675, 681

ZEMAN, F. D. Fundamental considerations, old and new, in nutrition of the elderly, 794